

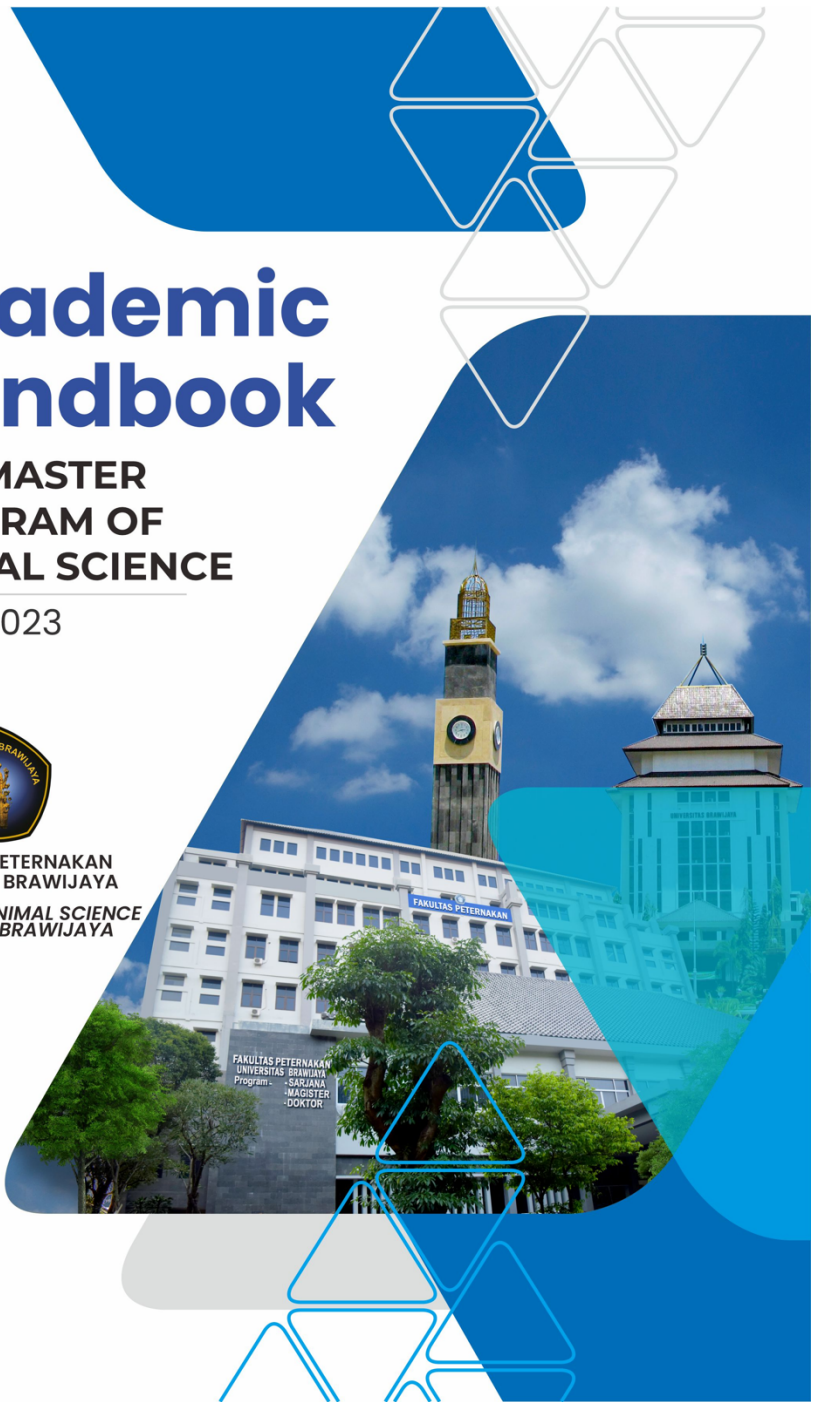
Academic Handbook

FOR MASTER PROGRAM OF ANIMAL SCIENCE

2022/2023



FAKULTAS PETERNAKAN
UNIVERSITAS BRAWIJAYA
FACULTY OF ANIMAL SCIENCE
UNIVERSITAS BRAWIJAYA



FAKULTAS PETERNAKAN
UNIVERSITAS BRAWIJAYA
Program -
-SARJANA
-MAGISTER
-DOKTOR



PERATURAN REKTOR UNIVERSITAS BRAWIJAYA

NOMOR 64 TAHUN 2022

TENTANG

PENYELENGGARAAN PENDIDIKAN UNIVERSITAS BRAWIJAYA
TAHUN AKADEMIK 2022/2023

DENGAN RAHMAT TUHAN YANG MAHA ESA

REKTOR UNIVERSITAS BRAWIJAYA,

- Menimbang : a. bahwa sebagai acuan penyelenggaraan pendidikan tinggi di Universitas Brawijaya, diperlukan adanya pedoman penyelenggaraan pendidikan tinggi;
- b. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a, perlu menetapkan Peraturan Rektor tentang Penyelenggaraan Pendidikan Universitas Brawijaya Tahun Akademik 2022/2023;
- Mengingat : 1. Undang-Undang Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 78, Tambahan Lembaran Negara Republik Indonesia Nomor 4301);
2. Undang-Undang Nomor 12 Tahun 2012 tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);
3. Peraturan Pemerintah Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 16, Tambahan Lembaran Negara Republik Indonesia Nomor 5500);
4. Peraturan Pemerintah Nomor 108 Tahun 2021 tentang Perguruan Tinggi Negeri Badan Hukum Universitas Brawijaya (Lembaran Negara Republik Indonesia Tahun 2021 Nomor 240);
5. Peraturan Menteri Pendidikan dan Kebudayaan Nomor 3 Tahun 2020 tentang Standar Nasional Pendidikan Tinggi (Berita Negara Republik Indonesia Tahun 2020 Nomor 47);

6. Peraturan Rektor Universitas Brawijaya Nomor 93 Tahun 2021 tentang Organisasi dan Tata Kerja Unsur yang Berada di Bawah Rektor (Lembaran Universitas Brawijaya Tahun 2021 Nomor 122) sebagaimana telah diubah dengan Peraturan Rektor Universitas Brawijaya Nomor 1 Tahun 2022 tentang Perubahan Atas Peraturan Rektor Nomor 93 Tahun 2021 tentang Organisasi dan Tata Kerja Unsur yang Berada di Bawah Rektor (Lembaran Universitas Brawijaya Tahun 2022 Nomor 1);

MEMUTUSKAN:

Menetapkan : PERATURAN REKTOR TENTANG
PENYELENGGARAAN PENDIDIKAN UNIVERSITAS
BRAWIJAYA TAHUN AKADEMIK 2022/2023.

Pasal 1

Dalam Peraturan Rektor ini yang dimaksud dengan:

1. Universitas Brawijaya yang selanjutnya disingkat UB adalah perguruan tinggi negeri badan hukum.
2. Rektor adalah organ UB yang memimpin penyelenggaraan dan pengelolaan UB.
3. Fakultas adalah himpunan sumber daya pendukung yang menyelenggarakan dan mengelola pendidikan akademik dan/atau pendidikan profesi dalam 1 (satu) rumpun disiplin ilmu pengetahuan dan teknologi.
4. Sekolah Pascasarjana UB yang selanjutnya disebut SPUB adalah penyelenggaraan pendidikan program magister dan program doktor untuk bidang ilmu multidisiplin, interdisiplin, dan transdisiplin.
5. Penyelenggaraan Pendidikan adalah pengaturan, perencanaan, pengawasan, pemantauan, dan evaluasi serta pembinaan dan koordinasi pelaksanaan jalur, jenjang, dan jenis pendidikan.
6. Kurikulum adalah seperangkat rencana dan pengaturan mengenai tujuan, isi, dan bahan pelajaran serta cara yang digunakan sebagai pedoman penyelenggaraan kegiatan pembelajaran untuk mencapai tujuan Pendidikan Tinggi.
7. Sistem Kredit Semester yang selanjutnya disingkat SKS adalah suatu sistem kredit yang diselenggarakan dalam satuan waktu semester.
8. *Outcome Based Education* yang selanjutnya disingkat OBE adalah pendekatan dalam sistem pendidikan yang bertujuan agar mahasiswa memenuhi capaian pembelajaran lulusan.
9. Model Interaksi Sinkron adalah interaksi pembelajaran dosen dan mahasiswa dalam waktu yang sama.
10. Model Interaksi Asinkron adalah interaksi pembelajaran dosen dan mahasiswa yang dilaksanakan tidak dalam waktu yang sama.

11. Pembelajaran dalam Jaringan yang selanjutnya disebut Pembelajaran Daring adalah pembelajaran yang terhubung melalui jejaring komputer, internet, dan sebagainya tanpa tatap muka secara langsung dengan menggunakan dua model interaksi antara dosen dan mahasiswa berdasar waktu proses pembelajaran, yaitu Model Interaksi Sinkron dan Model Interaksi Asinkron.
12. Merdeka Belajar adalah hak belajar mahasiswa di luar program studi paling singkat dilaksanakan selama 1 (satu) semester dan paling lama 3 (tiga) semester.
13. Departemen adalah unsur dari Fakultas yang mendukung penyelenggaraan kegiatan akademik dalam 1 (satu) atau beberapa cabang ilmu pengetahuan dan teknologi dalam jenis pendidikan akademik, pendidikan vokasi, dan/atau pendidikan profesi.
14. Program Studi adalah kesatuan kegiatan pendidikan dan pembelajaran yang memiliki kurikulum dan metode pembelajaran tertentu dalam 1 (satu) jenis pendidikan akademik, pendidikan profesi, dan/atau pendidikan vokasi.
15. Laboratorium adalah perangkat penunjang pelaksanaan pendidikan di lingkungan Fakultas.
16. Unit Pelaksana Akademik adalah seluruh pihak yang memiliki tugas dan wewenang dalam penyelenggaraan kegiatan akademik baik di tingkat UB maupun tingkat Fakultas.
17. Kalender Kegiatan Akademik adalah dasar pengaturan waktu penyelenggaraan kegiatan akademik di UB selama 1 (satu) tahun akademik.

Pasal 2

- (1) Penyelenggaraan Pendidikan UB Tahun Akademik 2022/2023 dilaksanakan sesuai pedoman sebagaimana tercantum dalam Lampiran yang merupakan bagian tidak terpisahkan dari Peraturan Rektor ini.
- (2) Lampiran sebagaimana dimaksud pada ayat (1) terdiri atas:
 - a. Bagian I Kalender Kegiatan Akademik UB Tahun Akademik 2022/2023; dan
 - b. Bagian II Pedoman Pendidikan UB.

Pasal 3

Kalender Kegiatan Akademik UB Tahun Akademik 2022/2023 berlaku bagi semua mahasiswa UB dan Unit Pelaksana Akademik di UB.

Pasal 4

- (1) Peraturan Rektor ini berlaku bagi mahasiswa yang diterima pada Tahun Akademik 2022/2023.
- (2) Produk hukum UB yang mengatur Penyelenggaraan Pendidikan UB yang telah ada sebelum Peraturan Rektor ini ditetapkan dinyatakan tetap berlaku bagi mahasiswa sesuai dengan tahun akademik mahasiswa terdaftar di UB.



- 4 -

Pasal 5

Peraturan Rektor ini mulai berlaku pada awal Semester Ganjil Tahun Akademik 2022/2023.

Agar setiap orang mengetahuinya, memerintahkan pengundangan Peraturan Rektor ini dengan penempatannya dalam Lembaran Universitas Brawijaya.

Ditetapkan di Malang
pada tanggal 21 Juli 2022

REKTOR UNIVERSITAS BRAWIJAYA,



TTE oleh :
WIDODO
21 Juli 2022 09:30

Verifikasi melalui
<https://sco.ub.ac.id>

WIDODO

Diundangkan di Malang
pada tanggal 21 Juli 2022

plt. KEPALA DIVISI HUKUM DAN TATA LAKSANA
UNIVERSITAS BRAWIJAYA,



TTE oleh :
HARU PERMADI
21 Juli 2022 10:06

Verifikasi melalui
<https://sco.ub.ac.id>

HARU PERMADI

LEMBARAN UNIVERSITAS BRAWIJAYA TAHUN 2022 NOMOR 65
per-2022-64-Penyelenggaraan Pendidikan



UU ITE No. 11 Tahun 2008 Pasal 5 Ayat 1

"Informasi Elektronik dan/atau Dokumen Elektronik dan/atau hasil cetaknya merupakan alat bukti hukum yang sah."
Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BSR.

KALENDER KEGIATAN AKADEMIK UNIVERSITAS BRAWIJAYA

Tahun Akademik 2022/2023

I	SEMESTER GANJIL	TANGGAL
1	Registrasi Administrasi bagi mahasiswa lama (pembayaran UKT/SPP)	1 – 12 Agustus 2022
2	Registrasi Akademik (pengisian KRS) mahasiswa lama	2 – 13 Agustus 2022
3	Batas akhir batal tambah dan pembatalan mata kuliah	Kebijakan Penentuan tanggal diserahkan Fakultas masing-masing
4	Kuliah + Ujian Tengah Semester (UTS) + Ujian Akhir Semester (UAS) Semester Ganjil	22 Agustus – 23 Desember 2022
5	Rekonsiliasi Data Mahasiswa	19 – 30 September 2022
6	Pelaporan PDDikti Semester Pelaporan 2021.2 dan 2022.1 (maba)	Penentuan Tanggal sesuai dengan Ketentuan PD-DIKTI
7	Batas akhir pengumuman nilai ujian dan Pengisian KHS	6 Januari 2023
8	Proses evaluasi keberhasilan studi mahasiswa	9 Januari 2023
9	Batas akhir pelaksanaan Yudisium *)	10 Januari 2023
10	Batas akhir proses keputusan keberhasilan studi mahasiswa	12 Januari 2023
11	Batas akhir Semester Ganjil	13 Januari 2023

II	SEMESTER GENAP	TANGGAL
1	Registrasi Administrasi (pembayaran SPP online)	23 Januari – 3 Februari 2023
2	Registrasi Akademik (Pengisian KRS)	23 Januari – 4 Februari 2023
3	Batas akhir batal tambah dan pembatalan mata kuliah	Kebijakan Penentuan tanggal diserahkan Fakultas masing-masing
4	Kuliah + Ujian Tengah Semester (UTS) + Ujian Akhir Semester (UAS) Semester Genap	13 Februari – 23 Juni 2023
5	Rekonsiliasi Data Mahasiswa	20 Februari – 10 Maret 2023
6	Pelaporan PDDikti Semester Pelaporan 2021.1 dan 2021.2 (maba pascasarjana)	Penentuan Tanggal sesuai dengan Ketentuan PD-DIKTI
7	Batas akhir pengumuman nilai ujian dan Pengisian KHS	30 Juni 2023
8	Pelaksanaan Semester Antara	26 Juni – 21 Juli 2023
9	Batas akhir pengumuman nilai ujian dan Pengisian KHS Semester Antara	26 Juli 2023
10	Proses evaluasi keberhasilan studi mahasiswa	27 Juli 2023
11	Batas akhir pelaksanaan Yudisium *)	28 Juli 2023
12	Batas akhir proses keputusan keberhasilan studi mahasiswa	28 Juli 2023
13	Batas akhir Semester Genap	31 Juli 2023
III	KEGIATAN UNIVERSITAS	TANGGAL
1.	Upacara Dies Natalis UB ke 60 (Pidato Ilmiah)	05 Januari 2023

*) yudisium melebihi batas waktu tersebut tidak diperbolehkan



**ACADEMIC HANDBOOK MASTER'S PROGRAM OF
ANIMAL SCIENCE 2022/2023**



**FACULTY OF ANIMAL SCIENCE
UNIVERSITAS BRAWIJAYA
MALANG
2023**



**ACADEMIC HANDBOOK
2022/2023**

Document Code	:	
Revision	:	
Date	:	
Submitted by	:	Vice Dean  <p>TTE oleh : Muhammad Halim Natsir 28 Oktober 2021 14:56</p> <p>Verifikasi melalui https://sco.ub.ac.id</p> Prof. Dr. M. Halim Natsir, S.Pt. MP. IPM. ASEAN Eng
Approved by	:	Dean  <p>TTE oleh : SUYADI 28 Oktober 2021 14:59</p> <p>Verifikasi melalui https://sco.ub.ac.id</p> Prof. Dr. Sc. Agr. Ir. Suyadi, MS. IPU., ASEAN Eng

PREFACE

Academic handbook 2022/2023 for Master Program of Animal Science is published in order to accelerate the dissemination of information and implementation of the teaching and learning process in Faculty of Animal Science Universitas Brawijaya.

This academic handbook is a translation of the implementation of Sisdiknas Regulation No. 12 Year 2012 about higher education and PRD No.4/2016 about the status of Universitas Brawijaya dan Dean decree No. 77 Year 2016 which is expected to provide a clearer explanation to lecturers, students and the community regarding the implementation of education in Faculty of Animal Science UB. The curriculum in academic handbook is formulated based on learning outcomes that refer to Indonesian Qualification Framework (IQF) (PP No.8 tahun 2012). The other things that have not been regulated in this handbook follow the academic handbook of Universitas Brawijaya (www.ub.ac.id).

Finally, we hope that this academic handbook can fulfill its function as a reference in implementing the teaching and learning process.

Faculty of Animal Science
Universitas Brawijaya
Dean,



TTE oleh :
SUYADI
28 Oktober 2021 14:59
Verifikasi melalui
<https://sco.ub.ac.id>

Prof. Dr. Sc. Agr. Ir.Suyadi, MS. IPU., ASEAN Eng

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CHAPTER I

INTRODUCTION

A. History

Faculty of Animal Science established on October 26, 1961, which was still called the Faculty of Veterinary Medicine and Animal Science. Based on the Decree of the Minister of PTIP Number: 92 dated August 1, 1962, FKHP was given state status and since July 1, 1962, it was under Airlangga University.

Meanwhile, in Probolinggo in October 28, 1961, the Probolinggo Higher Education Foundation opened a College for the Department of Marine Fisheries. This department later became one of the Faculty of Veterinary Medicine and Animal Science departments, namely based on the Decree of the Minister of PTIP No. 163 the year 1963 dated May 25, 1963.

In January 5, 1963, UB and all its faculties were state status by the Decree of the Minister of PTIP No. 1 of 1963. The Faculty of Agriculture and the Faculty of Veterinary Medicine and Animal Science which were initially under Universitas Airlangga, were returned to Universitas Brawijaya.

Since February 3, 1972, the Probolinggo Marine Fisheries Department College joined FKHP, UB as the Department of Fisheries through the Rector's Decree Number 229/Pend.5/25-72. Meanwhile, at the end of 1970, the Department of Veterinary Medicine was established to have three Departments, namely the Department of Animal Science, Veterinary Medicine, and Fisheries. The Department

of Veterinary Medicine finally joined Airlangga University in Surabaya from August 1972 until now.

In subsequent developments, the Department of Fisheries in Probolinggo was moved to Malang to facilitate implementation and the possibility of its development. Based on the Decree of the Minister of Education and Culture Number 0220/B/1973 dated December 3, 1973, the name of FKHP was changed to the Faculty of Animal Science with two study programs (Animal Science and Fisheries) starting from January 1, 1973. The Decree of the Rector of Universitas Brawijaya No. 51/Sk/77 dated July 5, 1977 name of the Faculty of Animal Science become Faculty of Animal Science and Fisheries (FPP). On May 13, 1983, the Department of Fisheries obtained the status as the Faculty of Fisheries, Universitas Brawijaya with the Decree of the Minister of Education and Culture Number 39249/I/1983 FPP UB only has one department, namely the Department of Animal Science. Through the Decree Presidential of the Republic of Indonesia Number 59 of 1982 dated September 7, 1982. the name of FPP was changed back to the Faculty of Animal Science.

In 1984, through the Decree of the Director-General of Higher Education Number 118/Dikti/Kep./1984 UB's Faculty of Animal Science was allowed to hold two departments, namely the Department of Animal Feed and Nutrition, and the Department of Animal Production and three Study Programs under the Dean, namely: Reproduction and Animal Breeding Study Program, Animal Product Technology Study Program, and Livestock Socio Economy Study Program. Furthermore,

based on the Letter of the Director-General of Higher Education Number 225/Dikti/Kep/1996, there are four study programs in the Faculty of Animal Science, namely: Animal Production Study Program, Animal Feed and Nutrition Study Program, Animal Product Technology Study Program, and Livestock Socio Economy Study Program. The Faculty of Animal Science only consists of 1 Study Program, namely Animal Science, which consists of 5 interests, including Animal Production, Feed and Animal Nutrition, Animal Product Technology, Livestock Socio Economy, and Animal Breeding and Reproduction.

Universities to face the demands of change and the world of work for graduates, it must be able to adjust themselves so that good changes are needed both in an institutional and curriculum, according because that the Competency-Based Curriculum prepares as part of the process of unifying the study program which was named "Animal Science Study Program" which was determined based on the Decree of the Director-General of Higher Education No. 0034/D2.2/2008.

In 1981, UB and Universitas Gadjah Mada (UGM) pioneered Master Program of Animal Science (MPAS) by delivering a credit semester. MPAS was established in 1999 under UB Postgraduate management. Based on the Rector's Decree in 2006 (No.30/SK/2006, date 21 February 2006), MPAS management was handed over to Faculty of Animal Science.

B. Vision, Mission, and Educational Objectives

1. Vision

To become a leading institution in the animal science sector based on local resources at the national and international levels.

2. Mission

- a. Providing education in the sector of animal science that fulfills of national and international standards.
- b. Developing research that produces international standard scientific work, science and technology that is needed for society and industry.
- c. Developing and expanding the cooperation networks at domestic and abroad in the sectors of education, research and international scientific publications.
- d. Aligning the quality of learning with national and international standards to produce graduates who are competitive nationally and internationally and have competencies according to the needs of stakeholders.

3. Ducational Objectives

- a. Producing graduates who are devoted to God Almighty, with the spirit of Pancasila.
- b. Producing graduates who have excellence in the development and application of science and technology, especially in the sectors of animal science who are competitive nationally and internationally.

- c. Producing graduates with high spirit of entrepreneurship who are able to manage and develop livestock business.
- d. Producing graduates who have qualified leadership abilities and encouragement for livestock development in the community (community leader).
- e. Producing graduates who have high managerial abilities and work in various agencies/industries in a professional and highly competitive manner in the workplace both at domestic and abroad.
- f. Able to develop and conserve local livestock resources to empower livestock on an industrial scale.
- g. Able to establish cooperation in the Tri Dharma of Higher Education with various related parties, both national and international.
- h. Able to follow the development of science and technology in the field of animal science.

CHAPTER II

ORGANIZATIONAL STRUCTURE AND PERSONNEL

A. Organizational Structure

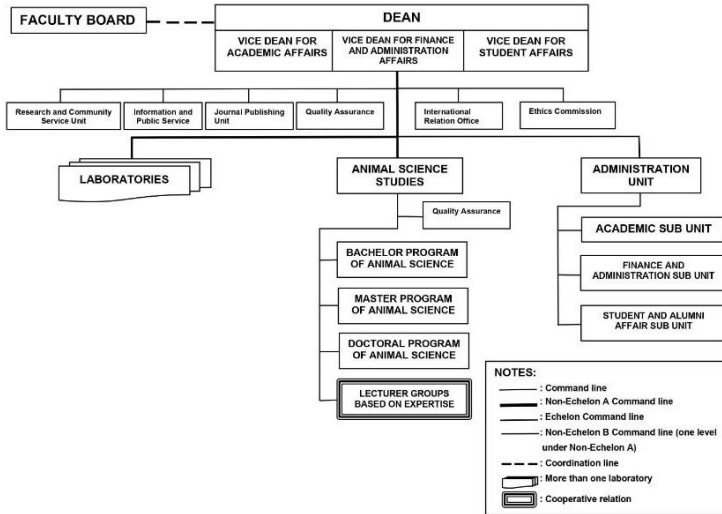


Figure 2. 1 Organizational Structure

B. Personnel

Position	Name
Dean	Prof. Dr. Sc. Agr.Ir. Suyadi, MS, IPU., ASEAN Eng
Vice Dean for Academic Affairs	Prof. Dr. Ir. Muhammad Halim Natsir, S.Pt, MP., IPM., ASEAN Eng.
Vice Dean on Finance and Administration Affairs	Prof. Dr. Ir. Budi Hartono, MS., IPU., ASEAN Eng
Vice Dean for Student Affairs	Dr. Agus Susilo, S.Pt., MP., IPM., ASEAN Eng.

Head of Animal Science Studies	Dr. Khothibul Umam Al Awwaly, S.Pt., M.Si.
Head of Bachelor Program of Animal Science	Dr. Herly Evanuarini, S.Pt., MP
Head of Master Program of Animal Science:	Dr. Ir Tri Eko Susilorini, MP., IPM., ASEAN Eng.
Head of Doctoral Program of Animal Science	Prof.Dr.Ir. Lilik Eka Radiati, MS., IPU.
Head of Animal Production Department	Ir. Nurcholis, MS. IPM. ASEAN Eng
Head of Feed and Animal Nutrition Department	Dr. Ir. Marjuki, M.Sc.
Head of Animal Production Technology Department	Dr.Ir. Imam Thohari, MP., IPM., ASEAN Eng
Head of Livestock Social Economic Department	Rizki Prafitri, S.Pt., M.A., Ph.D
Head of Faculty Quality Assurance	Asri Nurul Huda, S.Pt., MP., M.Sc.
Head of Journal Management Office	Dr. Premy Puspitawati Rahayu, S.Pt., MP.
Head of Research and Community Services Office	Dr. Ir. Sri Minarti, MP. IPM. ASEAN Eng.
Head of Management Information System and Public Relation	Ir. Poespitasari Hazanah Ndaru, S.Pt. MP.
Head of International Relation Office	Prof. Dr. Ir. V. M. Ani Nugartiningih, M.Sc.

Lecturers

The number of lecturers in Master Program of animal Science is 34 consisting of 10 professors and 24 Assistant Professor or Associate Professor. Details of the name and the expertise of lecturers are presented in chapter 4 (Table 3.2).

C. Administrative Staff

Administrative Staff to support the smooth implementation of education at the Faculty of Animal Science, 48 staff members, all of whose employee's status are Civil Affairs; 10 staff members have Bachelor Degree as educational background.

CHAPTER III

EDUCATION SYSTEM

Universitas Brawijaya has formally adopted the Semester Credit System, stipulated by the Chancellor's Decree Number 22/SK/1917 dated May 3, 1976.

A. Workload and Credits

1. Semester Credit Unit for lectures

SCU is a system credits held in semester time units. The score of one-semester credit unit in a lecture is determined based on the activity load which includes all activities per week as follows:

- a. Students
 - 1) Sixty minutes of lectures per week per semester.
 - 2) One hundred minutes of structured assignment per week per semester.
 - 3) One hundred and twenty-five minutes of independent study per week per semester.

2. Semester Credit Score for Research

The score of one SCS for Research is 285 minutes per week per semester.

3. Workload of MPAS student

The workload of MPAS is as follows:

- a. The master student must obtain at least 36 SCU including thesis
- b. The master students with non-linear study program background are required to do Matriculation Program (non-credit) which has been determined. It has to be done before formal learning program began.
- c. Total credits for matriculation are 6 SCU (non-credit). The Matriculation subjects are Statistic and Experimental Design and Academic Writing.
- d. Course composition:
 1. Compulsory courses are taken in the first semester (15 credits)
 2. Elective courses (at least 11 credits) are taken in the second semester and
 3. Master Thesis in the last two semester (10 credits)

The learning outcome for thesis:

- Scientific publication in international journals indexed by Scopus or Web of Science Core Collection (Thomson Reuter) or national journal accredited by Sinta 2, or UB journals determined by the Rector; or Scopus indexed proceedings according to the Rector's Regulation Number 52 of 2018.
- The Master's Program is taken in a maximum of 4 years (8 semesters)

- e. For enrolment as a master student, you need to obtain undergraduate degree except for students who take special programs such as the Fast-Track Program.

B. Curriculum Content

Master's curriculum regulation as guideline for teaching and learning process in UB refers to Number 20 of 2003 concerning the National Education System. Meanwhile the learning outcomes refers to the Presidential Regulation No. 8 of 2012 concerning the Indonesian National Qualifications Framework (IQF), also Permendikbud Number 03 of 2020. The curriculum for the Masters is as follows:

- a. University Compulsory Course
 - Research Methods and Scientific Writing 3 credits
 - Thesis 10 credits
- b. Study Program Compulsory Course (12 credits)
- c. Elective Courses (11 credits)
- d. Total workload for lectures: 24 - 40 credits
- e. The maximum of total workload per semester is 18 credits

C. Study Evaluation of Master Student

1. Study Evaluation

The categories that evaluated:

- a. Students who have not been able to achieve GPA = 3.0 at the end of the first semester for the best eight credits will receive a warning from the faculty

- b. Students at the end of third semester (registered semester) have not been able to achieve a GPA 3.0 for the best 16 credits, the student concerned is declared a failure and is not allowed to continue his/her studies.
- c. The student may re-take a course once
- d. For students who have achieved at least 14 credits with minimum GPA 3.0 and have passed Research Methods Course, the person concerned can formally submit thesis proposal.
- e. The thesis proposal must be approved by the Advisory Commission. Defending thesis proposal in front of the Thesis Proposal Assessment Team (supervisory commission and two examiners who have been appointed by Head of Master Study Program) is mandatory.
- f. Students who have passed the thesis proposal seminar and have revised it.

2. Failure of Study

Students are declared failed if (at least one the following categories occurred):

- a. GPA <3.0 for the best 16 credits as determined
- b. The student did not pass thesis proposal seminar on the second chance
- c. The student did not pass thesis exam on the second chance
- d. The due date to complete the study has been passed

D. Final Project Thesis

1. Definition

- a. Thesis is an academic paper made based on the results of independent research by master students under the supervision and guidance of a supervisory team
- b. Thesis is mandatory to be done by master students
- c. Total credit of thesis is 10 credits
- d. The topic of thesis is the development of science, technology in accordance with the scope of the scientific field in the study program where the student is registered
- e. The data or facts used as the basis for Thesis must come from research activities (included literature studies)
- f. The data have to be obtained according legal research activities and trustworthy measurements and avoid plagiarism

2. Thesis Workload

Thesis workload is 10 credits, consisting of:

- a. Preparation of thesis proposal
- b. Thesis proposal seminar/exam
- c. Conducting research
- d. Writing and publishing Scientific Articles in Scientific Journals or proceedings
- e. Thesis Report Preparation
- f. Result Seminar
- g. Thesis Final Exam

The proportion of each part of work activities in thesis to the final grade:

- a. Thesis Proposal Exam (10%)
- b. Conducting Research (20%)
- c. Result Seminar (10%)
- d. Scientific Publication (Journal and/or Proceedings)
20%
- e. Thesis Final Exam (40%)

3. Thesis Research Proposal Examination

Requirements

- a. The student has to pass a minimum of 14 credits with minimum GPA of 3.00
- b. The student has to passed Research Methodology Course with minimum grade B
- c. Already have thesis supervisory team

Implementation

- a. Thesis Proposal Seminar is assessed by a team of examiners consisting of a supervisory committee and two examiners
- b. Thesis Proposal Seminar requires the attendance of a minimum 3 out of 4 members of examiner team. The seminar can be closed or opened seminar

Research/Literature Study and Thesis Writing

- a. The supervisory committee is obliged to monitor and evaluate the thesis research activities of the master students
- b. The assessment of thesis research activities is carried out by supervisory committee that considered these points:
 - Research Monitoring Card (KKP)
 - Research Log Book
 - Research Progress Report
 - Research supervision report and assessment form
 - Monitoring can be carried out on site or based on a written report
 - Assessment can be carried out through supervisory commission session forum and it is stated in the Number or Letter
 - Procedures and financial support for research monitoring and assessment are regulated by study program

4. Result Seminar of Thesis

Requirements

Result seminar of Thesis conducted by student which:

- The research was done and the draft of thesis is approved and signed by supervisory committee
- The journal articles draft has submitted to the supervisory committee. Student has participated in a minimum number set of result seminar

The Implementation of Seminar Thesis

- a. Thesis Research Results Seminar is assessed through presentations and open discussions by a team of examiners. The attendance of examiner team at least 3 out of 4 members.

5. Thesis Final Exam

- a. Final Thesis draft has been revised, approved and signed by all supervisors
- b. The thesis draft has been checked to prevent plagiarism by thesis committee of study program and declared a maximum similarity 20%
- c. The student has fulfilled all administrative requirement
- d. The registration for Final Thesis Exam can be done at least 7 days before the exam date.
- e. The articles have been published in a journal or seminar proceeding according to study program regulation

Implementation of the final thesis exam

- a. Thesis examination consists of a supervisory committee and two examiners. The proposal examination can be carried out if attended by at least 3 out of 4 members of the examiner team
- b. If the main supervisor is unable to attend thesis proposal seminar, the supervisor must delegate to the co-supervisor

Procedure for Thesis Examination Assessment

- a. Assessment is carried out by all examiners team members

- b. In special cases, master student who have outstanding achievements in international publications as determined by Rector can be graduate without final thesis exam. The examiners team can propose to Dean and/or head of study program to award grade A for his/her. The examiners team evaluates and decides regarding the student's publications whether students have outstanding achievements
- c. The criteria of outstanding achievement candidate:
 - Have scientific publications
 - o minimum 2 (two) scientific articles that have been published or accepted in accredited Journal of Sinta 2
 - o at least one article that has been published or accepted in the proceedings, or
 - o at least one article that has been published or accepted in an international journal indexed by Scopus or the Web of Science Core Collection (Thomson Reuters)
 - The average grade for all stages of Thesis is A
 - The Thesis Draft has been evaluated and reviewed by examiners team. The master student revised and have approved by supervisory committee

Qualifications, Determination, Rights and Obligations of Supervisors

Thesis preparation is directed by supervisory committee consist of 2 (two) members. The minimum educational

qualification of the supervisors as internal supervisors and external supervisors is a doctoral degree with an Assistant Professor position and a doctoral degree with Associate Professor or Assistant Researcher, respectively.

The supervisory committee are appointed by Head of Study Program and approved by Dean.

The Grade Scale Assessment

The grade scale of assessment is distributed in several grades ranged A-E of grade value and 0-100 of score (Table 1.).

Table 3. 1 The Assessment Grade

Score range	Grade Value	Grade Point	Remarks
>80-100	A	4	Excellent
>75-80	B+	3.5	Very good
>69-75	B	3	Good
>60-69	C+	2.5	Fail
>55-60	C	2	Fail
>50-55	D+	1.5	Fail
>44-50	D	1	Fail
0-44	E	0	Fail

Available remedies to improve the grade (for the grade lower than B).

Master Program Judiciary

The maximum of study duration of Master is 4 years. Judiciary is conducted after students complete all academic and administrative requirements:

- a. Completed lectures, thesis and other academic assignments.
- b. The minimum grade for all courses is B.
- c. Complete other requirements set by the study program.

Master Graduation Predicate

Students who are declared passed receive graduation predicate with the criteria for master's graduation predicate are as follows:

- a. Graduated with honors (Cumlaude) with the following requirements are:
 - GPA >3.75
 - Have publication more than one article in scientific publications in the form of proceedings and or international scientific journals indexed by Scopus or Web of Science Core Collection, national journals that are accredited of Sinta 2, and UB journals as determined by Rector
 - The maximum study period is five semesters
- b. Graduated with the predicate Very Satisfactory, the requirements are:
 - Does not meet other requirements in point (a)
 - GPA > 3.5
- c. Graduated with the predicate Satisfactory, the requirements are:
 - Achieved GPA $3.0 < \text{GPA} < 3.5$
- d. The graduation predicate is determined by Examiner team and approved by Dean and/or Head of Study Program

CHAPTER IV

CURRICULUM

Master Program curriculum is structured based on the Law of the Republic of Indonesia Number 12 of 2012 on Higher Education, Presidential Regulation of the Republic of Indonesia Number 8 of 2012 on the Indonesian National Qualifications Framework (IQF), Regulation of the Minister of Education and Culture of the Republic of Indonesia Number 73 of 2013 on the Implementation of the Indonesian Qualifications Framework in Higher Education Sector, Permenristekdikti Number 44 of 2015 on National Standards for Higher Education (SN-DIKTI), Government Regulation Number 4 of 2012 on Implementation of Higher Education, and Permendikbud No. 3 of 2020 on National Standards of Higher Education. MPAS graduate profiles refer to IQF Level 8:

1. Capable to develop knowledge, technology, and/or art in the field of science or professional practice through research, so it produces innovative and tested works
2. Capable to solve problems of science, technology, and/or art in their field of science through an inter or multidisciplinary approach
3. Capable to manage research and development that is beneficial to society and science, and can gain national and international recognition

The structural of curriculum of master program can be seen in Figure 3.1.

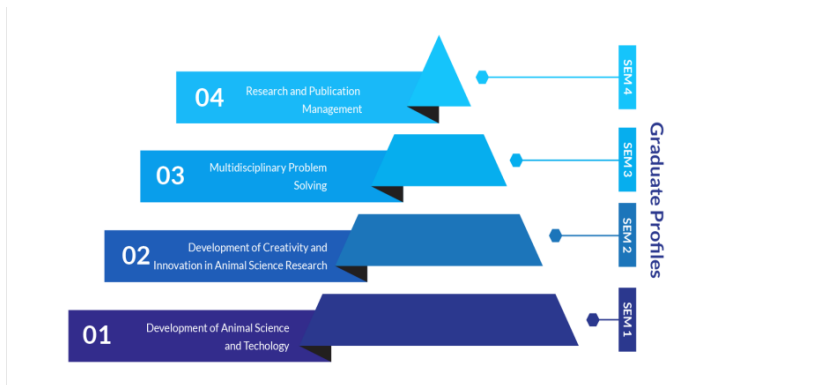


Figure 3. 1 Curriculum structure of Master Program of Animal Science, Faculty of Animal Science, UB

The Course Description of Master Program

Prior to graduation, students must complete at least 36 credits, consist of compulsory and elective courses. Compulsory courses are taken in the first semester (15 credits), and elective courses (at least 11 credits) are taken in the second semester and Master Thesis in the last two semester (10 credits). The ideal plan for completion of master program is presented in Figure 3.2. The detailed course description of master program shown below. In addition, Table 3. revealed the list of lecturers of master program.

Department	Category	Semester												
		1	2	3	4									
Animal Production	University compulsory course	Research methodology and scientific work (3)	Elective courses											
	Study program compulsory course	Big data and Artificial Intelligence in Animal Science (3)												
	Compulsory course interested in Animal Production	Animal Production Physiology (3), Animal Production Technology (3), Production Development (3)												
Animal Feed and Nutrition	University compulsory course	Research methodology and scientific work (3)				Ruminant Production Industry (3), Animal Production (3), Non-Ruminant Production Industry (3), Animal Waste Management Industry (3), Ruminant Feed Development Strategy (3), Feed and Animal Nutrition (3), Non-Ruminant Feed Development Strategy (3), Forage Development Strategy for Ruminants And Non Ruminants (3), Reproductive Genetics (3), Technology of Meat (3), Leather and By-product Industry (3), Animal Product Technology (3), Dairy Industry Technology and By-products (3), Technology of Egg and Honey Industry (3), Social Engineering (3), Agribusiness, Livestock Business Communication (3), Agribusiness Risk Management (3), Reproductive Biotechnology (3), Animal Reproduction and Breeding (3), Animal Breeding (3)	Master Thesis (10)	Master Thesis (10)						
	Study program compulsory course	Big data and Artificial Intelligence in Animal Science (3)												
	Compulsory course interested in Animal Feed and Nutrition	Animal Feed Processing Science and Technology (3), Development of Nutrition and Animal Feed (3), Feed Evaluation Science and Techniques (3)												
Animal Products Technology	University compulsory course	Research methodology and scientific work (3)												
	Study program compulsory course	Big data and Artificial Intelligence in Animal Science (3)												
	Compulsory course interested in Animal Products Technology	Animal products biotechnology (3), Design of animal products and processes (3), Regulation of animal products industry (3)												
Agribusiness	University compulsory course	Research methodology and scientific work (3)												
	Study program compulsory course	Big data and Artificial Intelligence in Animal Science (3)												
	Compulsory course interested in Agribusiness	Agribusiness Supply Chain Management (3), Politics and agribusiness policy (3), Strategic Management of Agribusiness (3)												
Animal Reproduction and Breeding	University compulsory course	Research methodology and scientific work (3)												
	Study program compulsory course	Big data and Artificial Intelligence in Animal Science (3)												
	Compulsory course interested in Animal Reproduction and Breeding	Animal Reproductive Efficiency (3), Genetic Evaluation and Design of Breeding (3), Animal breeding management (3)												

Figure 3. 2 The ideal plan for completion of Master Program of Animal Science

The Detailed Course Description of MPAS

Study Program Compulsory Units

- | | | |
|---|------------|-----------------|
| 1. Research Methodology and Scientific Writing | 2-1 | PEF80001 |
|---|------------|-----------------|

Course Description:

This course covers how to prepare a research proposal, research report and scientific work in animal science field. The topics consist of preparation of research background, problems identification, determined research objectives and the benefits, hypothesis formulation, literature review development, scientific framework formulation, research operational framework determination, literature study, experimental design determination, data analysis, result and discussion preparation, established a conclusion.

- | | | |
|--|------------|-----------------|
| 2. Big data dan Artificial Intelligence in Animal Science | 3-0 | PEF80002 |
|--|------------|-----------------|

Course Description:

This course discusses the application of artificial intelligence in livestock industry and the utilization of big data to solve a problem in livestock industry now and later.

- | | | |
|-------------------------|-----------|--|
| 3. Master Thesis | 10 | |
|-------------------------|-----------|--|

Course Description:

-

Department of Animal Production Compulsory Units

- | | | |
|--|------------|-----------------|
| 4. Animal Production Physiology | 3-0 | PEP80001 |
|--|------------|-----------------|

Course Description:

This course explains the physiological mechanism of the production process including internal and external factors that support livestock productivity, including; growth and development, physiology of parturition, lactation, egg formation, and environmental adaptation.

5. Animal Production Technology 3-0 PEP80002**Course Description:**

This course explains the development of livestock production potential by applying technique and innovation to dairy cattle, broilers, poultry and miscellaneous livestock on an industrial level, including breeding and increasing productivity (breeding, feeding, management), molecular technology and evaluation of production based on livestock welfare.

6. Animal Production Development 3-0 PEP80003**Course Description:**

This course explores livestock management and designs the development of dairy, meat, poultry, and miscellaneous livestock production according to Good Farming Practices (GFP), animal welfare, and regulations.

Department of Animal Production Elective Units**7. Industry of Ruminant Production 3-0 PEP80004****Course Description:**

This course describes the development and application of optimal management of the ruminant livestock industry based on good farming practices/good dairy practices and regulations to

produce quality products with traceability and traceability of supply chains sustainable.

8. Industry of Non-Ruminant Production **3-0** **PEP80005**

Course Description:

This course describes the development and application of optimal management of the non-ruminant livestock industry based on good farming practices and regulations to produce quality products with traceability and sustainable supply chains.

9. Animal Waste Management Industry **3-0** **PEP80006**

Course Description:

This course discusses livestock industry waste management technology with learning sub-achievements: open management technology (aerobic/air/blowing/added air) and closed management technology (anaerobic/without oxygen) as well as product quality evaluation technology to be marketed/commercialized.

Department of Nutrition and Animal Feed Compulsory Units

10. Feed Processing Science and Technology **3-0** **PEN80001**

Course Description:

This course discusses feed ingredient processing technology (protection, fermentation, preservation) and feed additive production technology for ruminant, non-ruminant and forage livestock. Furthermore, this course examines the formulation of non-ruminant and ruminant animal feed.

**11. Development of Feed and
Animal Nutrition**

3-0

PEN80002

Course Description:

This course explains the development and function of animal feed nutrition science and technology in a livestock business that can produce livestock products (high productivity and large scale livestock business), ASUH (safe, healthy, intact and halal), friendly and safe for the environment, as well as sustainable to meet/balance the number of requests/needs for livestock products which are continually increasing rapidly. The material discussed mainly focuses on the development of science that underlies the role and function of nutrition and animal feed science and technology in achieving the current and future demands of the livestock business and its products.

**12. Feed Evaluation Science and
Techniques**

3-0

PEN80003

Course Description:

This course discusses:

1. Various feed evaluation methods have been developed or modified to predict feed quality.
2. Various techniques for evaluating feed and forage ingredients, antinutrients, contaminants and feed biotechnology products physically, chemically and biologically.
3. Quality standards of feed (ISO, KAN, HCCP and Sigma)
4. Evaluation of feed associated with various parameters in research. It is obtaining quality feed that can support the potential for livestock productivity.
5. Interpretation of data from the evaluation of nutrition and its benefits for livestock to support livestock business following the development of science.
6. No more discussing the evaluation procedure technique

Department of Nutrition and Animal Feed Elective Units

13. Ruminant Feed Development Strategy 3-0 PEN80004

Course Description:

This course is a follow-up to the three compulsory courses for Nutrition and Animal Feed Department that have been given in semester 1, especially those related to ruminants. This course subject is focused on comprehensive studies in terms of technical aspects and the impact of the application of research results or the results of the application of a strategy/technique to increase the efficiency of feed utilization by livestock both to increase the production of high ruminant livestock, ASUH, friendly and environmentally safe and sustainable, as well as opportunities for their development. Some of these strategies/techniques start from selecting the feed ingredients, processing, formulating and giving them to livestock (precision feeding), including feed additives (rumen fermentation manipulation). This course material is in the form of reviewing research articles or applying a strategy/technique to increase the efficiency of feed by livestock for the above production purposes.

14. Non-Ruminant Feed Development Strategy 3-0 PEN80005

Course Description:

This course discusses the efforts to improve the quality and effectiveness of feeding non-ruminants, including aspects of supply and quality of local feed raw materials, application of microbial-based feed additive technology, substantive active substances and metabolic substances, feeding strategies related to environmental problems and agricultural locations, increasing nutritional efficiency, through the concept of Nutri biome, meta-analysis studies on aspects of nutrition and non-ruminant animal feed, as well as reviewing non-ruminant feed formulations.

18. Regulation of Animal Product Industry **3-0** **PET80003**

Course Description:

This course discusses the policies and regulations issued by the government regarding processed livestock products including milk, meat, eggs, honey and leather products. This includes distribution permits, import policies for livestock products from abroad, veterinary control number certification, PIRT/MD/ML licensing, free market policies, halal requirements, packaging requirements and labels.

Department of Animal Product Technology Elective Units

19. Technology of Meat, Leather and By-product Industry **3-0** **PET80004**

Course Description:

This course aims to improve students' understanding of Meat, Leather and By-products: This course discusses the industrial development and technology of meat, leather and by-products which are important and strategic commodities from the nutritional aspect, from the preparation of industrial raw materials to proper environmental management. caused by industry. Selection and assessment of raw materials, HACCP on processing, Handling and maintenance of core tools and equipment in the industry, as well as simple testing methods for its products.

20. Technology of Dairy Industry and By-products Industry **3-0** **PET80005**

Course Description:

This course discusses national dairy and international trade, the process of processing milk which is an important and strategic

commodity from the aspect and fulfillment of nutrition for the community in the industry, starting from the preparation of industrial raw materials to the proper handling of by-products and increasing added value.

21. Technology of Egg and Honey Industry **3-0** **PET80006**

Course Description:

The Egg and Honey Industry Technology course discusses the egg and honey industry which is an important and strategic commodity from the aspect and fulfillment nutrition for people in industry from the preparation of raw materials to the proper handling of the environment caused by the industry.

Department of Livestock Agribusiness Compulsory Units

22. Agribusiness Supply Chain Management **3-0** **PES80001**

Course Description:

This course aims to improve student skills in aspects of Competitive advantage, understanding the concept of Integrated Supply Chain and Competitive Advantage, Supply Chain Management and Strategic Lead Time Management, Information Technology in Supply Chain Management and integrated corporate systems, the core concept of e-Supply Chain, B-to-B Landscape in e-Supply Chain and Chain, Extraprise Value Network, Strategy of Integrating Two Systems and Collaboration of Information Technology between Companies, Concept of Digital Economy in Supply Chain and Concept of Value Matrix in Virtual Value Chain, shifting from Linear Supply Chain to Networked Supply Chain and Case Study : Supply Chain Management in Industrial Era 4.0 vs New Normal Era.

23. Agribusiness Politics and Policy **3-0** **PES80002**

Course Description:

This course aims to improve student skills through aspects of understanding agribusiness, agribusiness structures, agribusiness development models, agribusiness problems and prospects, and agribusiness policies.

24. Strategic Management of Livestock Agribusiness **3-0** **PES80003**

Course Description:

The focus of strategic management has shifted from business policy towards competitive advantage and finally to corporate governance. The direction of strategic management has also been changed from focusing on long-term planning, five force model analysis, strategic advantages, core competencies, and blue ocean strategy, to combining flexible corporate strategies that are suitable for modern environments which are changing rapidly.

The course material introduces students to the concept of strategic management. Through the strategy design process, students are introduced to the mission, vision and approach to setting strategic goals. Methods for evaluating external factors and competitiveness as well as internal strengths and weaknesses are included (EFE and IFE matrices, Competitiveness matrix and PEST analysis). Different business strategies (expansion, mergers and acquisitions, vertical integration, diversification). Strategy selection and analysis includes the application of SWOT, SPACE, BCG and QSPM matrix. The core objectives of this course are to understand strategic planning processes, concepts, and tools and be able to apply them to certain business situations, develop knowledge related to the current livestock agribusiness sector, which includes the driving forces of change, industry trends, and industry scope, develop and perfecting analytical, communication and teamwork skills.

Department of Livestock Agribusiness Elective Units

25. Social Engineering **3-0** **PES80004**

Course Description:

This course includes activities to provide students with an understanding in identifying and mapping existing social situations related to the nodes of activities in the livestock sector; then students can work on institutional intervention opportunities for livestock agribusiness development in accordance with agribusiness interests, the dynamics of social change and applicable regulations. Based on the intended objectives, the lectures are given materials: Understanding of social change and social-capital, Production-regime and organization of production, Social-analysis, Sustainable-Livelihoods approach and analysis, Regulations and policies for the development of livestock agribusiness , Land-tenure systems and livestock agribusiness, SDGs in agriculture-livestock, Climate change and smart-agriculture, Concepts of sovereignty and food security, Internet of things (IoT) in agriculture, Social inclusion and gender in agriculture, Agribusiness development with millennial youth , as well as research and development agenda of social institutions in agribusiness.

26. Livestock Business Communication **2-0** **PES80005**

Course Description:

Students are able to apply the concept of business communication in animal husbandry which includes a basic understanding of agricultural development, communication systems, actors in business, communication messages, message delivery methods, media and communication and communication technology in supporting supply chains

27. Agribusiness Risk Management 2-0 PES80006

Course Description:

This course aims to improve students' abilities in risk line analysis based on the concept of uncertainty, risk management, understanding individual behavior in dealing with risk, correlating between risk and income, individual behavior in dealing with risk (risk averse, risk taker, risk neutral), identifying and skilled in applying corporate risk management, understanding the types and sources of Agribusiness risks, skilled in decision making and calculating risky income with several methods and able to design risk management strategies.

**Department of Animal Reproduction and Breeding
Compulsory Units**

28. Animal Reproductive Efficiency 2-1 PER80001

Course Description:

This course discusses about the strategy produces reproductive efficiency so that it contains knowledge from reproductive physiology and regulation to achieve reproductive efficiency through accelerating puberty. Normal estrus cycle, mating system that produces high success with increased productivity, produces healthy offspring until weaning, and no reproductive disorder occurs

29. Animal Genetic Evaluation and Breeding Program Design 3-0 PER80002

Course Description:

This course discusses about the concept of genetic diversity, the concept of inheritance and repetition of traits and their applications, animal genetic quality improvement programs, quantitative genetic models and estimation of variance components, genetic evaluation methods and models, genetic

changes for several traits, increasing selection accuracy, utilization of heterosis and inbreeding pressure in breeding programs, application of software for genetic analysis, molecular genetics in animal breeding, analysis of genetic diversity and population genetics at the molecular level

30. Animal Breeding Management 3-0 PER80003

Course Description:

This course discusses about the concept of reproduction and breeding in management to produce animal breeds (factors that affect animal performance, understanding of genetic potential), the mating system includes the application of Artificial Insemination Techniques (AI), embryo transfer, Assisted Reproductive Technology (ATR), assessment of mating success and its calculations using reproductive parameters (NRR, S/C, CR, PR, Calving Interval, calving rate, calf crop and weaning rate), recording and correcting data, selection program on male/female through performance test and progeny test, calculation of population structure and animal development patterns, calculation of the need for breeds and animal supply as well as methods and evaluation of crossbreeding programs to produce breeds.

**Department of Animal Reproduction and Breeding
Elective Units**

**31. Animal Reproductive
Biotechnology 2-1 PER80004**

Course Description:

This course focuses on the potential of animal production development uses technology engineering and its innovation on dairy, meat, poultry and others livestock including breeding, feeding and management, molecular technology and animal production evaluation based on animal welfare.

**32. Ruminant and Non-Ruminant
Breeding**

3-0

PER80005

Course Description:

This course discusses about recording system, methods, procedures and preparation of breeding patterns for ruminants (beef cattle, dairy cattle, goats and sheep) and non-ruminants (poultry) to increase animal productivity as well as animal breeding policies and the formation of new breeds in Indonesia and several developed countries.

**33. Animal Reproductive Molecular
Genetics**

2-1

PER80006

Course Description:

This course discusses about three main aspects in reproductive molecular genetics, namely: (1) the mechanism of expression of reproductive traits (starting from the performance of DNA, RNA, RNA transcription for reproductive traits, non-genetic factors that affect reproductive traits), (2) the main aspects in regulating the expression of reproductive traits in male cattle (spermatogenesis processes, semen production; folliculogenesis, genetics in pregnancy and embryonic growth, reproductive disorders, nutrigenomics and reproduction); and (3) molecular analysis for reproductive traits using electrophoresis PCR, RFLP, SNP, genomic techniques and RNA sequencing

Table 3. 2 The list of master program lecturers

No	Position + Full time/Part time	Denomination	Name	Expiring of contract	Teaching hours for the study programme to be accredited	Further served study programmes
1	Professor/Full time	Livestock Agribusiness	Prof.Dr. Ir. BUDI HARTONO, MS., IPU., ASEAN Eng.	2030	90,665	Strategic Management of Livestock Agribusiness, Agribusiness Supply Chain Management
2	Professor/Full time	Meat Technology	Prof.Dr. DJALAL ROSYIDI, MS., IPU., ASEAN Eng.	2029	45,333	Technology of Meat, Leather and By-product Industry, Regulation of the

						Animal Food Industry
3	Professor/Full time	Animal Breeding and Genetics	Prof.Dr. Ir. GATOT CIPTADI, DESS., IPU., ASEAN Eng.	2030	45,333	Animal Reproductive Biotechnology, Animal Reproductive Molecular Genetic, Animal Genetic Evaluation and Breeding Program Design
4	Professor/Full time	Ruminant Nutrition	Prof.Dr. Ir. HARTUTIK, MP., IPU., ASEAN Eng.	2026	68	Development of Feed and Nutrition, Feed Processing

						Science and Technology
5	Professor/Full time	Milk Technology	Prof. Dr. Ir. LILIK EKA RADIATI, MS., IPU	2029	68	Animal Food Biotechnology
6	Professor/Full time	Miscellaneous Animal Production and Waste Processing	Prof.Dr. Ir. MOCHAMMAD JUNUS, MS.	2025	68	Animal Waste Management Industry
7	Professor/Full time	Ruminant Nutrition	Prof.Dr. Ir. SITI CHUZAEMI, MS., IPU., ASEAN Eng.	2023	90,667	Ruminant Feed Development Strategy

8	Professor/Full time	Animal Breeding and Genetics	Prof.Dr. Ir. VERONICA MARGARETA ANI NURGIARTININGSIH, M.Sc.	2034	102	Animal Genetic Evaluation And Breeding Program Design, Animal Breeding Management
9	Professor/Full time	Poultry Nutrition	Prof.Dr. MUHAMMAD HALIM NATSIR, S.Pt., MP., IPM., ASEAN Eng.	2041	79,333	Research Methodology and Scientific Writing, Big Data and Artificial Intelligence in Animal Science, Non-Ruminant Feed Development Strategy

10	Professor/Full time	Animal Reproduction	Prof.Dr.Ir. SRI WAHJUNINGSIH, M.Si.	2029	228	Animal Reproductive Biotechnology
11	Associate professor/Full time	Animal Breeding and Genetics	Dr.Ir. AGUS BUDIARTO, MS.	2022	228	Animal Genetic Evaluation and Breeding Program Design, Animal Breeding Management
12	Associate professor/Full time	Food Technology	Dr.Ir. AGUS SUSILO, S.Pt., MP., IPM., ASEAN Eng.	2038	152	Regulation of Animal Product Industry, Technology of Meat, Leather and By-Product Industry

13	Associate Professor/Full time	Livestock Agribusiness	Dr.Ir. BAMBANG ALI NUGROHO, MS.DAA., IPM., ASEAN Eng.	2031	114	Agribusiness Supply Chain Management, Strategic Management of Livestock Agribusiness, Agribusiness Risk Management
14	Associate professor/Full time	Poultry Production	Dr.Ir. EDHY SUDJARWO, MS.	2022	228	Animal Production Development, Industry of Non-Ruminant Production
15	Associate professor/Full time	Livestock Agribusiness	Ir. HARI DWI UTAMI, MS., M.AppL.Sc., Ph.D., IPM., ASEAN Eng.	2026	228	Strategic Management of Livestock Agribusiness, Agribusiness

						Supply Chain Management
16	Associate professor/Full time	Egg Technology	Dr. HERLY EVANUARINI, S.Pt., MP.	2040	114	Design and Processes of Animal Products, Animal Food Biotechnology, Technology of Egg and Honey Industry
17	Associate professor/Full time	Egg Technology	Dr.Ir. IMAM THOHARI, MP., IPM., ASEAN Eng.	2024	152	Animal Food Biotechnology, Technology of Egg and Honey Industry

18	Assistant professor/Full time	Poultry Nutrition	Dr.Ir. IRFAN H.D., M.Sc., IPM., ASEAN Eng.	2030	114	Development of Feed and Animal Nutrition, Non-Ruminant Feed Development Strategy
19	Assistant Professor/Full time	Miscellaneous Animal Production	Dr.Ir. ITA WAHJU NURSITA, M.Sc.	2028	76	Animal Production Physiology, Animal Waste Management Industry
20	Assistant professor/Full time	Food Biotechnology	Dr. KHOTHIBUL UMAM AL AWWALY, S.Pt., M.Si.	2039	76	Design and Processes of Animal Products, Regulation of Animal Product Industry

21	Associate professor/Full time	Meat Animal Production	Dr.Ir. KUSWATI, MS., IPM., ASEAN Eng.	2023	152	Animal Production Technology, Industry of Ruminant Production
22	Associate professor/Full time	Milk Technology	Dr. Ir. MANIK EIRRY SAWITRI, MS.	2024	114	Design and Processes of Animal Products, Technology of Dairy and By-product Industry
23	Assistant professor/Full time	Ruminant Nutrition	Dr. Ir. MARJUKI, M.Sc.	2028	76	Research Methodology and Scientific Writing, Ruminant Feed Development Strategy

24	Associate professor/Full time	Ruminant Nutrition	Dr.Ir. MASHUDI, M.Agr.Sc., IPM., ASEAN Eng.	2026	114	Ruminant Feed Development Strategy
25	Associate professor/Full time	Livestock Agribusiness	Dr.Ir. UMI WISAPTININGSIH SUWANDI, MS.	2021	76	Strategic Management of Livestock Agribusiness
26	Associate Professor/Full time	Poultry Production	Dr.Ir. MUHARLIEN, MP.	2022	152	Animal Production Development, Industry of Non-Ruminant Production
27	Associate Professor/Full time	Dairy Animal Production	Dr.Ir TRI EKO SUSILORINI, MP., IPM., ASEAN Eng.	2023	228	Animal Production Technology, Animal Production

						Development, Industry of Ruminant Production
28	Assistant Professor/Full time	Rural Sociology	Dr. Ir. PRIYO SUGENG WINARTO, M.A.	2026	76	Research Methodology and Scientific Writing, Social Engineering, Livestock Business 29Communication
29	Associate Professor/Full time	Socio economic	Dr.Siti Azizah, SPT. MSos.M.Commun	2040	152	Research Methodology and Scientific Writing, Social Engineering, Livestock Business Communication

30	Assistant Professor/Full time	Forage Science	Dr. Ir. Siti Nurul Kamaliyah, MP	2028	76	Forage Development Strategy
31	Assistant Professor/Full time	Animal Health and Production	Dr. Drh. ROSITAWATI INDRATI, M.P.	2024	76	Animal Production Physiology
32	Assistant Professor/Full time	Miscellaneous Animal Production	Dr.Ir. SRI MINARTI, MP., IPM., ASEAN Eng.	2026	152	Animal Production Development, Industry of Non-Ruminant Production
33	Associate Professor/Full time	Poultry Nutrition	Dr.Ir.Eko Widodo,M.Sgr.Sc.MSc	2028	228	Feed Processing Science and Technology, Non-Ruminant Feed

						Development Strategy
34	Associate Professor/Full time	Socio economic	Dr.Ir.Suprih Bambang S.MS	2023	156	Agribusiness Politics and Policy, Social Engineering, Livestock Business Communication