PREFACE

We are grateful to Allah the Almighty for His grace that this book compilation can be well completed on time. This is the Guidebook for the Educational Implementation of Bachelor’s degree Program of Faculty of Veterinary Medicine at Universitas Airlangga.

This is the 22nd publication of the guidebook from 1980 to 2018. The compilation of this guidebook is based on the Government Regulation Number 5 of 1980 concerning the Principles of Organizations of State University/Institute; Government Regulation Number 60 and 61 of 1999 and the results of Workshop on the Educational Implementation of Bachelor of Veterinary Medicine in 2000 and the results of the redesigned curriculum in 2016.

This guidebook can be used as a reference for 2018/2019 students, lecturers, academic and student affairs staff in notion, comprehension on the applied regulations for administering education, curriculum, evaluation system and quality assurance. It is also equipped, in details, with academic documents consisting of procedure manual, work instruction and learning forms, academic advisement reports, and thesis seminar forms as well as Guidelines for Education Program for Doctor of Veterinary Medicine (PPDH).

An A accreditation status has been granted to the Faculty of Veterinary Medicine of Universitas Airlangga from National Accreditation Board for Higher Education (BAN PT) for Bachelor’s degree study programs (S1) and Profession Program for Doctor of Veterinary Medicine (2015-2020) and Master Program (S2) in Reproductive Biology (2015-2020), Vaccinology and Immunotherapeutics, Veterinary Medicine and Public Health and Veterinary Agribusiness (2016-2021). An A accreditation status is also granted for the Doctoral study program (S3) of Veterinary Science (2018-2023). In addition, a certificate has been awarded from an ASEAN University Network (AUN) since 2014, and received ISO 9001: 2015 Certification, IWA2: 2007, Excellent Education System Base on Malcolm Baldridge National Quality Award (MBNQA), as a member of the South East Asia Veterinary School Association (SEAVSA), Association Institute of Tropical Veterinary Medicine (AITVM) and Association of the Indonesian Faculty of Veterinary Medicine (AFKHI), and also Ikhtiraf (Veterinary’s Order) from the Malaysian Government in year 2011.

On this occasion, our gratitude goes to the organizing team, the Quality Assurance Unit and all of those who assist the completion of the writing of the Guidebook for the Educational Implementation of Bachelor’s degree Program of Veterinary Medicine in the Faculty of Veterinary Medicine, Universitas Airlangga.

Surabaya, July 19, 2018

Dean,

signed

Prof. Dr. PudjiSrianto, drh., M.Kes.
NIP. 195601051986011001
REPRODUCTIVE BIOLOGY
(Dr.Rimayanti, M.Kes.,Drh)

VETERINARY AGROBUSINESS
(Dr.WidyaParamitaLokapirnasari, MP.,Drh)

ANIMAL DISEASES AND VETERINARY PUBLIC HEALTH
(Prof.Dr. Lucia Tri Suwanti, MP, drh)

VACCINOLOGY AND IMMUNOTHERAPEUTICS
(DidikHandijatno, Ph.D., MS., Drh)

THE DECREE OF THE DEAN OF FACULTY OF VETERINARY MEDICINE
UNIVERSITAS Airlangga

No. 114 / UN3.1.6 / 2018

About:
THE ENACTMENT OF
GUIDELINES FOR EDUCATIONAL IMPLEMENTATION
OF BACHELOR OF VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA
2018

Dean of Faculty of Veterinary Medicine
UniversitasAirlangga

Noting : a. That it is necessary to establish Educational Guidelines for Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, UniversitasAirlangga 2018 in order to support the success of educational implementation in the Faculty of Veterinary Medicine, UniversitasAirlangga.
b. That it is necessary to issue a Decree of the Dean of Faculty of Veterinary Medicine, UniversitasAirlangga in respect of item (a).

Bearing in mind : 1. Law Number 20 of 2003 concerning the National Education System (State Gazette of the Republic of Indonesia of 2003 Number 78, Supplement to the State Gazette of the Republic of Indonesia Number 4301);
2. Government Regulation Number 30 of 2006 concerning the Stipulation of UniversitasAirlangga as State Owned Legal Entity (BHMN) (LNRI 2006 No. 66);
3. Government Regulation Number 30 of 2014 concerning the Statute of UniversitasAirlangga (LNRI No. 100, TLN 5535);
4. Decree of the Minister of Education and Culture of the Republic of Indonesia Number: 055/O/1972 dated March 25, 1972 concerning the Establishment of Faculty of Veterinary Medicine, UniversitasAirlangga;
6. Board of Trustee Regulation Number: 12/P/MWA-UA/2008 concerning UniversitasAirlangga's Bylaws;
7. Rector's Regulation No. 42 of 2016 concerning Organizational Structure and Work Procedure of UniversitasAirlangga;
8. Rector's Regulation No. 6933/J03/KP/2007 concerning Organizational Structure and Management of Faculties in UniversitasAirlangga;
9. The decree of the Rector of UniversitasAirlangga Number:
1732/UN3/2015 on November 4, 2015 regarding the Designation of the Dean and Director of 2015-2020 Period for Postgraduate Program at Universitas Airlangga.

10. The decision of the Board of Trustees number 01/H3.MWA/K/2012 concerning Universitas Airlangga’s Strategic Plan and Rector’s Decree number 5857/H3/KR/2012 concerning the Operational Plan of the Universitas Airlangga’s Strategic Plan 2012-2017 as the basis for the organization of the Strategic Plan for the Rector in 2015-2020 about World Class University.

Considering:

1. Results of a Joint Agreement among Indonesian Veterinary Medicine Association and the Faculty of Veterinary Medicine of Bogor Agricultural University, Universitas Airlangga, Universitas Gadjah Mada, Universitas Udayana and Syah Kuala University on Quality Improvement on Indonesian Veterinary Medicine Profession through: Veterinary Medicine Profession Competence, Legal Aspects of Veterinary Profession Authority, Formation of Board of Education in Veterinary Medicine Profession and Veterinary Paramedic Competence, February 4, 2005;
2. Results of Competency Based Curriculum Development Workshop through Curriculum Redesign on April 14-20, 2005.

Decide:

Stipulate:

First: To validate the enactment of the Educational Guideline for Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, Universitas Airlangga 2018, updated with the following stages
   1. The entire contents of the Guidebook for the Bachelor Program of Veterinary Medicine in the Faculty of Veterinary Medicine, Universitas Airlangga are applied to, starting from, students of 2018/2019 and thereafter;
   2. For previous year students, the Educational Guidebook enacted complies with the corresponding Academic Year

Second: The provisions on education that have not been stipulated in this Decree will be stipulated later;

Third: This decree is effective as of the date of stipulation provided that, in the future, there appears to be a deficiency or errors in this decree to be corrected accordingly;

Fourth: Decrees contrary to this are declared null and void.

Stipulated at: Surabaya
Guidelines for the Educational Implementation of Bachelor’s Degree Programs, FVM Unair 2018

On: July 19, 2018

Dean,

signed

Prof. Dr. PudjiSrianto, Drh., M.Kes.
NIP. 195601051986011001

Copies delivered to:
- Rector of Universitas Airlangga
THE DECREE OF THE DEAN OF FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA

--------------------------------------------------------------
No. 115 / UN3.1.6 / 2018

About :

THE ORGANIZING TEAM FOR EDUCATIONAL GUIDEBOOK OF
BACHELOR OF VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA
2018

Dean of the Faculty of Veterinary Medicine
UniversitasAirlangga

Noting : a. Whereas in the education management in order to produce graduates in line with the progress of science and technology and to meet the demands of development, it is necessary to compile an Educational Guidebook for the Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, UniversitasAirlangga 2018;
b. Whereas in respect of that, it is necessary to establish an Organizing Team for the Educational Guidebook for Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, UniversitasAirlangga 2018;
c. That in connection with points (a) and (b), it is necessary to issue a Decree of the Dean of the Faculty of Veterinary Medicine, UniversitasAirlangga.

Bearing in mind : 1. Law Number 20 of 2003 concerning the National Education System (State Gazette of the Republic of Indonesia of 2003 Number 78, Supplement to the State Gazette of the Republic of Indonesia Number 4301);
2. Government Regulation Number 30 of 2006 concerning the Stipulation of UniversitasAirlangga as State Owned Legal Entity (BHMN) (LNRI 2006 No. 66);
3. Government Regulation Number 30 of 2014 concerning the Statute of UniversitasAirlangga (LNRI No. 100, TLN 5535);
4. Decree of the Minister of Education and Culture of the Republic of Indonesia Number: 055/O/1972 dated March 25, 1972 concerning the Establishment of Faculty of Veterinary Medicine, UniversitasAirlangga;
6. Board of Trustee Regulation Number: 12/ P/ MWA-UA/ 2008 concerning UniversitasAirlangga's Bylaws;
7. Rector’s Regulation No. 42 of 2016 concerning Organizational
Guidelines for the Educational Implementation of Bachelor’s Degree Programs, FVM Unair 2018

Structure and Work Procedure of Universitas Airlangga;
8. Rector’s Regulation No. 6933/J03/KP/2007 concerning Organizational Structure and Management of Faculties in Universitas Airlangga;
10. The decision of the Board of Trustees number 01/H3.MWA/K/2012 concerning Universitas Airlangga's Strategic Plan and Rector's Decree number 5857/H3/KR/2012 concerning the Operational Plan of the Universitas Airlangga’s Strategic Plan 2012-2017 as the basis for the organization of the Strategic Plan for the Rector in 2015-2020 about World Class University.

Decide:

Stipulate
First : To compile the Educational Guidebook for Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, Universitas Airlangga 2018;

Second : To designate Committee for the Organizing Team of the Educational Guidebook for the Faculty of Veterinary Medicine, Universitas Airlangga 2018;

Third : This decree is effective as of the date of stipulation provided that, in the future, there appears to be a deficiency or errors in this decree to be corrected accordingly

Stipulated at: Surabaya
On: July 19, 2018
Dean,
signed

Prof. Dr. PudjiSrianto, drh., M.Kes.
NIP. 195601051986011001

Copies delivered to:
- Rector of Universitas Airlangga
- Deans of the Universitas Airlangga
- The personnels concerned
Appendix: Decree of the Dean of the Faculty of Veterinary Medicine, Universitas Airlangga Number: 115/UN3.1.6/2018 dated July 19, 2018 concerning the Organizing Team of the Educational Guidebook of Bachelor of Veterinary Medicine, Faculty of Veterinary Medicine, Universitas Airlangga 2018

THE ORGANIZING TEAM OF THE EDUCATIONAL GUIDEBOOK
BACHELOR OF VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA
2018

Person in charge : 1. Dean of the Faculty of Veterinary Medicine Unair
                  Prof. Dr. PudjiSrianto, Drh., M.Kes
                  2. Vice Dean I of the Faculty of Veterinary Medicine Unair
                     Prof. Dr. Fedik Abdul Rantam, Drh.
                  3. Vice Dean II of the Faculty of Veterinary Medicine Unair
                     Dr. Mufasirin, Drh., M.Sc.
                  4. Vice Dean III of the Faculty of Veterinary Medicine Unair
                     Prof. Dr. Suwarno, Drh., M.Sc.

Chairman : Prof. Dr. Sri PantjaMadyawati, Drh., M.Sc.

Member : 1. Dr. Erma Safitri, Drh., M.Sc.
         2. Dr. TitaDamayanti Lestari, Drh., M.Sc.

Stipulated at : Surabaya
At the date of : 19 Juli 2018

Dean,

signed

Prof.Dr.PudjiSrianto, drh., M.Kes.
NIP. 195601051986011001
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CHAPTER I
PRELIMINARY

Based on the Decree of the Minister of Education and Culture of the Republic of Indonesia Number: 055/D/1972 on March 25, 1972, the Faculty of Veterinary Medicine officially became the sixth Faculty in Universitas Airlangga.

The 2015-2020 Board of Directors of Faculty of Veterinary Medicine of Universitas Airlangga consist of:

Dean: Prof. Dr. Pudji Srianto, drh., M.Kes.
Vice Dean I: Prof. Dr. Fedik Abdul Rantam, drh.
Vice Dean II: Dr. Mufasirin, drh., M.Si.
Vice Dean III: Prof. Dr. Suwarno, drh., M.Si.

The study programs in the Faculty of Veterinary Medicine of Universitas Airlangga include:

1. Bachelor’s Degree (S1) Program:
   a. Veterinary Medicine Program (SKH)
      Head of Program: Prof. Dr. Pudji Srianto, drh., M.Kes.

2. Professional Program:
   a. Veterinary Medicine Professional Program (drh.)
      Head of Program: Prof. Dr. Pudji Srianto, drh., M.Kes.

3. Master’s Degree (S2) Program:
   a. Master Degree in Reproductive Biology (M.Si)
      Head of Program: Dr. Rimayanti, drh., M.Kes.
   b. Master Degree in Veterinary Medicine and Public Health (M.Si)
      - Field of Interest in Microbiology-Parasitology
      - Field of Interest in Veterinary Public Health
      Head of Program: Prof. Dr. Lucia Tri Suwanti, drh., MP.
   c. Master Degree in Veterinary Agribusiness (M.Vet)
      Head of Program: Dr. Widya Paramita Lokapirnasari, drh., MP.
   d. Master Degree in Vaccinology and Immunotherapeutics (M.Si)
      Head of Program: Didik Handijatinodh., MS., Ph.D.

4. Doctoral Degree (S3) Program:
   a. Doctoral Degree in Veterinary Science (Dr)
      Head of Program: Prof. Dr. Sri Pantja Madyawati, drh., M.Si.
CHAPTER II
EDUCATION MANAGEMENT SYSTEM

1. VISION
To become a leading department on national and international levels and in the development of education and research in the field of veterinary and animal husbandry, which is based on independence through moral, ethical, environmentally-sustainability, and through animal-welfare consciences by remaining oriented toward public welfare.

2. MISSION
a. To provide academic, profession, and specialist educations in the field of veterinary and animal husbandry which is based on modern educational technology, which can produce graduates with professional ability and strong motivation to develop their knowledge as well as their entrepreneurial ethos, which uphold religious morality and ethics.

b. To conduct basic, applied, and policy-oriented research programs which are highly qualified and innovative in the veterinary and livestock fields to support the development of science, education and community service based on religious morals, ethics, environmental sustainability and animal welfare.

c. To dedicate and provide services of veterinary science and animal husbandry expertise to society.

d. To establish mutually beneficial partnerships with related institutions in order to achieve independence of the faculty which focuses on its quality and competitiveness at national and international levels.

3. EDUCATIONAL OBJECTIVES
a. To produce high-quality and dignified graduates who are capable of integrating, implementing and developing veterinary science and animal husbandry in order to be able to compete at national and international levels.

b. To produce innovative research that is able to solve problems that occur in the community and to encourage the development of science and technology in the field of veterinary and animal husbandry.

c. To produce and accomplish community service activities that can improve the ability of the community to independently and sustainably identify, formulate and solve problems related to the veterinary and livestock fields.

d. To achieve the independence of the faculty that is adaptive, creative, proactive towards the demands of the development of science and technology in the veterinary and livestock fields.

e. To develop a research-based entrepreneurial faculty with world-class excellence founded on national values, religious morals, ethics, environmental sustainability, and animal welfare.
4. ORGANIZATIONAL STRUCTURE
The Faculty of Veterinary Medicine of Universitas Airlangga consists of 9 (nine) Departments, including:

I. Department of Veterinary Anatomy
   Head of Department: Dr. Soeharsono, drh., M.Si.
   Secretary: Dr. EkaPramyrtha H., drh., M.Kes.

II. Department of Veterinary Reproduction
   Head of Department: Dr. Abdul Samik, drh., M.Sc.
   Secretary: Suzanita Utama, drh., M.Phil., Ph.D.

III. Department of Veterinary Public Health
   Head of Department: Dr. Mustofa Helmi Effendi, drh., DTAPH
   Secretary: Budiarto, drh. MP

IV. Department of Veterinary Pathology
   Head of Department: Arimbi, drh., M.Kes.
   Secretary: Dr. Hani Plumeriastuti, drh., M.Kes.

V. Department of Veterinary Parasitology
   Head of Department: Dr., Poedji Hastutiek, drh. M.Sc.
   Secretary: Dr. Endang Suprihati, drh., M.Kes.

VI. Department of Veterinary Basic Medical Science
   Head of Department: Dr. Nove Hidayati, drh., M.Kes.
   Secretary: Ratna Damayanti, drh., M.Kes.

VII. Department of Veterinary Microbiology
   Head of Department: Dr. Jola Rahmahani, drh., M.Kes.
   Secretary: Dr. Wiwiek Tyasningsih, drh., M.Kes.

VIII. Department of Animal Husbandry
    Head of Department: Dr. M. Anam Al - Arif, drh., MP.
    Secretary: Sunaryo Hadi Warsito, drh., MP.

IX. Department of Veterinary Clinic
    Head of Department: Dr. Wiwik Misaco Juniarti, drh., M.Kes.
    Secretary: Hardany Primarizky, drh., MVM.
5. LEARNING ACHIEVEMENTS

5.1. Attitude
5.2. General Knowledge
5.3. Special Skills
5.4. Knowledge

6. COMPETENCE OF GRADUATES

a. To apply the veterinary and animal husbandry science and technology, along with the general scientific concepts of thinking, creatively and innovatively based on ethics, morality, religion, and Pancasila (Professionals, Leaders, Managers, Entrepreneurs and Researchers).

b. To handle zoonotic (emerging and reemerging diseases), nonzoonotic and epizootic diseases of large animals, small animals, poultry, aquatic animals, commodity animals, pet and companion animals, experimental animals, wildlife and protected animals so that students have insights on National Animal Health System including One Health and Veterinary Legislation according to the responsibilities of the Veterinary professions (Professionals, Leaders, Managers, Entrepreneurs, Researchers).

c. To apply and develop the laboratory technology of anatomy, histology, physiology, biochemistry, embryology, reproduction, pathology, clinical pathology, microbiology, parasitology, pharmacology, and toxicology, clinics, and Veterinary Public Health (Kesmavet) (Professionals, Managers, Researchers).

d. To apply science and technology in identifying and diagnosing animal diseases based on physical and laboratory examinations including comparative medicine caused by agents, (viruses, bacteria, parasites, fungi and toxins) (Professionals, Managers, Researchers).

e. To implement and develop epidemiology and surveillance systems in the control and prevention of strategic and zoonotic diseases (Professionals, Leaders, Managers, Entrepreneurs, Researchers).

f. To implement bioproduct, biosafety, and biosecurity in safeguarding and monitoring biological materials from animals and their processed products based on animal welfare for human welfare by maintaining the balance of ecosystems (Professionals, Leaders, Managers, Entrepreneurs, Researchers).

g. To apply the management of animal health, livestock, livestock feed and animal nutrition, and maintenance of food-producing animals/livestock, pets and companion animal, wildlife and protected animals, aquatic animals and laboratory animals (Professionals, Leaders, Managers, Entrepreneurs, Researchers).

h. To possess the ability to explain how to diagnose physiological abnormalities, metabolic and symptomatic illnesses on animals (Professionals, Managers, Entrepreneurs, Researchers).

i. To have the understanding on various kinds/types of available drugs based on their classes, chemical structures, pharmacokinetics and pharmacodynamics, and of the usages of the available therapies in accordance with the parameters of patients (Professionals, Managers, Entrepreneurs, Researchers).
j. To develop reproductive technology to improve the genetic quality of animals, and to handle reproductive problems in animals (pregnancy diagnosis and reproductive disorders) (Professionals, Managers, Researchers).

k. To develop entrepreneurial skills independently in the field of veterinary science and animal husbandry (Professionals, Leaders, Managers, Entrepreneurs)

7. EDUCATIONAL FACILITIES

The Faculty of Veterinary Medicine of Universitas Airlangga is located on campus "C". The facilities are equipped with adequate educational equipments, such as:

- Classrooms
- Laboratories (for lab work)
- Head of Department Room
- Lecturer Room
- Tanjung Adiwinata Meeting Room
- Library
- Student Activity Room / BEM Room
- Student Computer Room
- Administration Room
- Wifi Area (Hall, Floor 1 to 4), Gazebo, Canteen, and Mosque

8. EDUCATION SUPPORTING FACILITIES

8.1. Teaching Farm facility, located in Tanjung Village, Kecamatan Kedamean, Gresik: The facility consists of buildings for housing facility, corral (goats, sheep, beef cattle, and dairy cows), frozen semen production unit, laboratory, veterinary clinic, student dormitories, offices, garages, warehouses and biogas unit. This facility is for students in bachelor’s degree and professional programs (PPDH).

8.2. Animal Hospital of Universitas Airlangga: an educational facility and a public service area for candidates of veterinarian or for veterinarians who are in apprenticeship.

8.3. Veterinary Testing and Feed Analysis Unit (UPVETAP): Virology, Microbiology and Animal Feed (KAN accredited, LP-769-IDN).

8.4. Animal Testing Cages for mice, rats and rabbits are located on the third floor of junction. BSL 3 and cages for cattle, goats/sheep and poultry are located on the first floor.

8.5. Molecular Biology Laboratory

8.6. In vitro Laboratory

9. EDUCATION PROGRAMS AND SYSTEMS

9.1. EDUCATION PROGRAM

Education Program is a program that contains learning experiences in theories, skills and attitudes as a whole. The bachelor’s degree program (S1) available in The Faculty of Veterinary Medicine of Universitas Airlangga is Bachelor Degree Program of Veterinary Medicine.

9.2. EDUCATION SYSTEM

The Education Program is implemented through the Credit Unit System. Lecture and practicum provided at the Faculty of Veterinary
Medicine of Universitas Airlangga has a ratio of 60%: 40% for S1, thus it is expected that the Bachelors will have the ability and skills to deal with the problems of certain diseases and to master the techniques in animal husbandry.

9.2.1. Understanding Credit Unit System

Based on Ministerial Regulation by the Minister of Research in Technology and Higher Education no. 44 of 2015 concerning the National Standards for Higher Education (SN Dikti):

Satuan Kredit Semester (Credit Unit System), hereinafter SKS, is a time measurement of learning activities charged to students per week per semester (in a week within one semester) in the learning process through various forms of learning, or is a recognition of the efforts made by a student in participating in curricular activities in a study program.

One credit equals to 160 (one hundred and sixty) minutes of learning activities per week per semester.

Semester is a unit of time of effective learning activities for 16 (sixteen) weeks.

One credit is distributed in the form of lecture, practicum, and tutorials, which includes:

a. face-to-face learning (lecture) activities for 50 (fifty) minutes per week per semester;

b. learning activities through structured assignments for 60 (fifty) minutes per week per semester;

c. independent learning activities for 60 (sixty) minutes per week per semester.

One credit in the form of practical learning or field practice (apprenticeship) is 170 (one hundred and sixty) minutes per week per semester.

9.2.2. General Purposes of the Credit Unit System

The general objective of implementing the Credit Unit System at the Faculty of Veterinary Medicine of Universitas Airlangga is to better meet the development demands which include:

9.2.2.1. To provide opportunities for capable and active students to study in the shortest possible time.

9.2.2.2. To facilitate the adjustment of the curriculum from time to time in relation to the rapid development of science and technology nowadays.

9.2.2.3. To provide the possibility of evaluation system of student learning progress to be held properly.

9.2.2.4. To enable the mode of transferring of a student from one to another university or from one department/other faculty in a particular university.

9.2.3. Credit Value and Study Load

9.2.3.1. Semester Credit Value for lectures

The value of one semester credit is determined by the overall activity load of 3 (three) types of activities per week per semester as follows:

a. Student Activities
- Fifty (50) minutes of a scheduled face-to-face activity with a teaching staff, for example in the form of lectures.

- Sixty (60) minutes of structured academic activity, namely unscheduled study activities but planned by teaching staff, for example in the form of homework, exercises, practical activities, other tasks outside the classroom and others of the like.

- Sixty (60) minutes of independent activities, namely activities that must be carried out independently by students to explore, to prepare for, or otherwise to aim for an academic assignment, for example to read reference books.

b. Lecturer Activities

- Fifty (50) minutes of a scheduled face-to-face activity with students (lecturing activity).

- Sixty (60) minutes of planning and evaluating structured academic activities.

- Sixty (60) minutes of learning-material development through reading and writing.

c. Group Discussion, Practicum, Research, Fieldwork, Preparation of Thesis and Final Assignment Activities.

The value of credit unit system for lecture activities in the form of group discussions, lab work in the laboratory, research, field work, preparation of theses, final assignments and the like are determined as follows:

- Lecture activities in the form of group discussions, the value of 1 (one) credit is equal to the activity load of 2 (two) hours per week for one semester.

- Practicum activities, the value of 1 (one) credit is equal to the practical assignment in the laboratory or in the practicum room of 2 (two) hours per week for one semester.

- Field work/practical work/apprenticeship in industry/company/institutions and in the like activities, the value of 1 (one) credit is equal to the activity load of 4 (four) hours per week for one semester, or equivalent to 80-90 accumulative hours in one semester.

- For academic activities in the form of research and/or preparation of final assignments, thesis and of the like, the value of 1 (one) credit is equal to the activity load of 3-4 hours per day per month, in which one month is equivalent to 25 working days.

9.2.4. Study Load in Semester

The study load of a student in one semester is determined on the basis of average daily work time and individual abilities. In general, people work on average of 6 - 8 hours for 6 consecutive days. A student, on the other hand, is required to work longer hours because
not only does he work during the day but also at night. It is assumed
that a student works for 8-10 hours a day or 48 - 60 hours a
week. Therefore, as the value of one credit is roughly equivalent to 3
working hours, the study load of students for each semester is equal
to 16-20 semester credits or around 18 semester credits. To
determine the study load in one semester, it is also necessary to
consider individual abilities. This can be seen from the results of the
study of a student in the previous semester which is measured by the
Grade Point Average (GPA) which can be calculated as follows:

Total of course credit units multiplied with the mark
obtained for the course

\[
GPA = \frac{\Sigma K N}{\Sigma K} - \frac{\text{Total SKS of courses taken}}{}
\]

\[
GPA = \frac{\Sigma K N}{\Sigma K} - \frac{K_1N_1 + K_2N_2 + K_3N_3 + \ldots + K_nN_n}{K_1 + K_2 + K_3 + \ldots + K_n}
\]

K = credit units of courses taken
N = Mark obtained for each course
CHAPTER III
BACHELOR’S DEGREE PROGRAM IN VETERINARY MEDICINE
FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA

1. IMPLEMENTATION OF EDUCATION SYSTEM

Class Distribution
Class divisions in this program consists of regular class and English class.

Division of Academic Year
Each teaching year is divided into 2 (two) semesters:
   Odd Semester (I, III, V, VII)
   From August to December
   Even Semester (II, IV, VI, VIII)
   From January to July

2. BACHELOR’S DEGREE

The Judiciary Meeting is held at least 1 month before the graduation ceremony. The schedule for graduation in 1 year is carried out in accordance with the academic calendar of Universitas Airlangga. For students who have completed their thesis and the predetermined academic requirements, they will earn a Bachelor degree of Veterinary Medicine (SKH) after being judged by the Dean of the Faculty of Veterinary Medicine of Universitas Airlangga.

3. TERMS OF EVALUATION OF LEARNING OUTCOMES

3.1. EXAMINATION

3.1.1. Purpose and Objectives of Examination
1. To assess the learning progress of students after the lecture is given, on whether students have understood or mastered the material presented in a course.

2. To classify the assessment of learning outcomes, through letters of A, AB, B, BC, C, D, and E as the symbols, so that students are measured and classified based on their abilities.

3.1.2. Examination System and Implementation
1. New students and students who retake a course due to D and E grades are allowed to be in an examination related to the course taken if the students attend a minimum of 75% (seventy five percent) of lectures and 100% (one hundred percent) of practicums (see lecture document).
2. The forms of examination are available in written test, practicum, structured assignments, quizzes and softskills (see lecture document).

Examination Details:
a. Quiz and structured assignments are compulsory and the frequency of implementation depends on the Lecture Activity Unit (SAP). These types of assessment are conducted before the Final Exam (UAS).

b. Practicum Examination is carried out in a course that comprises practicum. The materials of the activity and the schedule are available in the SAP.

c. Mid-Term Exam (UTS) is conducted according to the schedule determined by the Faculty. The materials tested are of those discussed from the beginning of the lecture to the end of the middle of the semester.

d. Final Test (UAS) is conducted after silent week scheduled in the Academic Calendar. Materials in this test comprise those discussed from the beginning of the lecture to the end of the semester with a composition of 25% of the materials before the Middle Test (UTS) and 75% of the materials after the Middle Test (UTS).

3. For students who are unable to attend the tests, report must be made by providing legitimate evidence to authority no later than one day after the examination. Exceeding the due date in providing the report, either in the Middle Test (UTS) or in the Final test (UAS), will result in zero (0) value and will still be counted in the calculation of the final grade.

4. Lecturers are required to release the results of quizzes and structured assignments in the form of raw scores. The final grade (in the forms of letters) should be accessible for those related to the result (e.g. Laboratory), whereas the results of Mid-term Exam (UTS) and Final Exam (UAS) are released no later than 2 weeks after the tests take place by submitting each to the Academic Subdivision (SBAK).

5. In order for students to improve scores, in this Credit Unit System (SKS), students are allowed to retake a course in semester which lists the availability of the course.

6. It is recommended for students who earn grades of BC, C, D, and E for a particular course to retake the course by enrolling via Study Plan Card (KRS).

3.2. SCORING SYSTEM

3.2.1. Each test provides raw score within the scale of 0 to 100. The final grade is indicated into seven grades: A, AB, B, BC, C, D and E.

3.2.2. The final score of a course is determined by the cumulative results of the evaluation administered by the related lecturer. Here is an example of
the proportions of each assessment, respectively: 1.5 : 1.5 : 2 : 1 : 2 : 3 (quizzes, structured assignments, practical tests, soft skills, UTS, UAS)

Example:
X student has taken all the tests in Parasitology class, the score for each test is described in the following:

- Quiz = 70
- Structured Assignments = 65
- Practicum Test = 60
- UTS = 70
- UAS = 75
- Soft skills = 80

So, the final score is (still in raw score):

\[
\frac{(70 \times 1.5) + (65 \times 1.5) + (60 \times 2) + (70 \times 2) + (75 \times 3) + 80}{1.5 + 1.5 + 2 + 2 + 3 + 1} = \frac{767.5}{11} = 69.77
\]

3.2.3. **Processing the Final Score:** The raw score (in the form of number) is to be converted into Quality Score (Nilai Mutu) of 7 (seven) grades. As the final score (raw score) is obtained, the mean score (X) can then be processed. The grouping of scores is done by using the ASSESSMENT REFERENCE EVALUATION (PAP), as described in the following:

<table>
<thead>
<tr>
<th>Raw Score</th>
<th>Alphabetical Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-100</td>
<td>A</td>
</tr>
<tr>
<td>78 - &lt;86</td>
<td>AB</td>
</tr>
<tr>
<td>70 - &lt;78</td>
<td>B</td>
</tr>
<tr>
<td>63 - &lt;70</td>
<td>BC</td>
</tr>
<tr>
<td>54 - &lt;63</td>
<td>C</td>
</tr>
<tr>
<td>40 - &lt;54</td>
<td>D</td>
</tr>
<tr>
<td>&lt;40</td>
<td>E</td>
</tr>
</tbody>
</table>

3.2.4. **Alphabetical Scores** in the results above are then to be converted into 7 (seven) Numerical Grades, as described in the following:

<table>
<thead>
<tr>
<th>Alphabetical Score</th>
<th>Numerical Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>AB</td>
<td>3, 5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>BC</td>
<td>2, 5</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>0</td>
</tr>
</tbody>
</table>
3.3. ACHIEVEMENT ASSESSMENT

3.3.1. Student Learning Achievement Assessment is stated in Grade Point Average (GPA) or Average Quality Score (NMR).

3.3.2. The Grade Point Average (GPA) is determined by summing the multiplication of each credit by its quality value, divided by the number of credits:

\[
\text{GPA or NMR} = \frac{\sum (K_i \times N_i)}{\sum K_i}
\]

- \(K_i\) = credits taken from each course
- \(N_i\) = quality value of each course
- \(\sum\) = Total

To give an illustration of how the Grade Point Average (GPA or NMR is assessed, below is a sample of calculation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credit</th>
<th>Grade</th>
<th>Quality Score</th>
<th>S x Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIF 120</td>
<td>Veterinary Physiology</td>
<td>3</td>
<td>A</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>BIF 121</td>
<td>Veterinary Physiology</td>
<td>1</td>
<td>C</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>BIA102</td>
<td>Veterinary Histology</td>
<td>2</td>
<td>BC</td>
<td>2,5</td>
<td>5</td>
</tr>
<tr>
<td>BIA201</td>
<td>Veterinary Anatomy</td>
<td>2</td>
<td>B</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>PPH101</td>
<td>Philosophy</td>
<td>2</td>
<td>AB</td>
<td>3,5</td>
<td>7</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>11</td>
<td></td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

\[
\frac{32}{11} = 2.9
\]

3.3.3. The Predicates available for Grade Point Average (GPA) are available as follows:

<table>
<thead>
<tr>
<th>Grade Point Average (GPA)</th>
<th>Predicate</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.51 - 4.00 (with the lowest grade of B)</td>
<td>With distinction (Cum laude)</td>
</tr>
<tr>
<td>2.76 - 3.50 (with the lowest grade of C)</td>
<td>Very satisfactory</td>
</tr>
<tr>
<td>2.00 - 2.75 (with the lowest grade of D)</td>
<td>Satisfactory</td>
</tr>
</tbody>
</table>

3.4. EVALUATION OF STUDY
The measurement of success in the study is stated in the Grade Point Average (GPA) or NMR. The evaluation is conducted at the end of the semester, in every academic year (note that there are at least 20 credits to be taken in the first year of the study) to the end of the bachelor’s degree program (4 years), or up to a maximum of 7 (seven) years (provided that students meet each semester's evaluation).
3.4.1. **Evaluation of Semester Study Results**

The evaluation of the results of the semester study, which is conducted at the end of each semester, covers the courses taken by students during the semester. The results are stated by calculating the student's GPA in the semester taken. The results of this evaluation are mainly used to determine the study load (number of credits) that can be taken in the following semester, with the following conditions:

<table>
<thead>
<tr>
<th>Grade Point Average</th>
<th>The number of credits allowed in the following semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 3</td>
<td>Maximum 24 credits</td>
</tr>
<tr>
<td>2.51 - 3.00</td>
<td>Maximum 20 credits</td>
</tr>
<tr>
<td>2.00 - 2.50</td>
<td>Maximum 18 credits</td>
</tr>
<tr>
<td>&lt; 2</td>
<td>Maximum 15 credits</td>
</tr>
</tbody>
</table>

**Note:**
For students who plan an acceleration program (unavailable for those who are in the 1st and 2nd semester), the only possible courses available to take, which are beyond their semester, are those of 1 (one) year above respectively to the semester they are into (odd semester or even semester). For example, a student in Semester IV can only take courses that are being offered in Semester VI, while those in Semester III are only allowed to take courses in Semester V.

3.4.2. **Result Evaluation of First Year of Study**

On the first year (end of Semester II), starting from the enrollment of students to the Faculty of Veterinary Medicine of Universitas Airlangga, the results of their study are evaluated to monitor the students’ progress and thus to see if they are eligible to continue their study or not. Students are allowed to proceed to the next semester if they fulfill the following requirements:

1. Having taken at least 20 credits from the available credits in the first-year curriculum.
2. Having achieved a Cumulative Grade Point Average (CGPA) of ≥ 2.00.

3.4.3. **Result Evaluation of Fourth Year of Study**

At the end of the fourth year, starting from the enrollment of students to the Faculty of Veterinary Medicine of Universitas Airlangga, their results are evaluated to determine the on-scheduled graduation and the available extensive semester(s).

Students may continue their study if they fulfill the following conditions:

1. Having taken at least 84 credits of the total lecture credits.
2. Having reached a Cumulative Grade Point Average (CGPA) of ≥ 2.00.

3.4.4. **Evaluation of Study Results**

Students are declared to have passed the Bachelor’s degree Program of Veterinary Medicine of Universitas Airlangga if:

1. They have collected all programmed courses (148 credits)
2. They have a Grade Point Average of ≥ 2.00
3. They have NO score of D > 20% of programmed courses
4. They have NO score of E

Students would otherwise have to leave the faculty if they do not meet the requirements mentioned above.

3.4.5. Evaluation of Study Period Limits

1. Students are given the opportunity to complete the Bachelor’s degree (S1) Program of Veterinary Medicine within 8 (eight) semesters and a maximum of 14 (fourteen) semesters.

2. The decision to leave the faculty is determined based on the decision letter of the Rector of Universitas Airlangga, after receiving a proposal from the Dean of Faculty of Veterinary Medicine of Universitas Airlangga.

3.5. COMMUNITY SERVICE PROGRAM – LEARNING WITH COMMUNITY (KKN-BBM)

Students must take the Academic-Credit-System-based (SKS-based) course of Community Service Program – Learning with Community (KKN-BBM) organised by the Directorate of Education of Universitas Airlangga. Students are advised to take this program as early as semester V. If students participate in an Outbound program abroad, they are not subject to this program, according to Rector's Decree Number 4 Year 2018.

3.6. THESIS

Bachelor’s Degree students of Veterinary Medicine are obliged to write a thesis as a requirement to obtain the degree, as explained in the following details:

1. Student is allowed to write a thesis after fulfilling the requirements of:

   a. Having passed all the programmed courses up to Semester VII.
   
   b. Having been enrolled as a student at the Faculty of Veterinary Medicine of Universitas Airlangga.
   
   c. Having obtained a minimum ELPT score of 450 from the Language Center of Universitas Airlangga.

2. The thesis subject is exclusively determined by the student, with the approval of the Supervisor.

3. For students who take part in other lecturers' research projects, they are required to fill out a research approval form signed by 2 (two) supervisors and by lecturers who manage the research project.

4. The title of the thesis should meet the following requirements:

   a. Scientific regulations that fulfill variables for publication.
   
   b. The availability of sufficient research references.
   
   c. The relevance to the subjects with the fields of Veterinary and/or Animal Husbandry.
d. The conditions specified by the Faculty of Veterinary Medicine of Universitas Airlangga.

e. A minimum of 25 pages with the format of quarto paper size and double space.

5. Both **Primary** and **Secondary Supervisors** must have a rank of at least Lector (III-c) or having a minimum Master’s degree, with the notions that **The Primary Supervisor is permanently registered to the Faculty and to the University and that the Secondary One(s)** is appointed by the Dean and determined by the Dean Decree.

6. Thesis Writing is based on:

a. Research conducted individually and/ or by participating in a lecturer’s research that has been approved by the supervisor.

b. Field and laboratory surveys

7. The supervisor is fully responsible for the validity of the student’s thesis or seminar.

8. The results of the thesis and/ or seminar are considered invalid if fraud/plagiarism is found in the writing.

9. Thesis Writing or Seminar must follow the rules in the Manual of Thesis Writing published by the Faculty of Veterinary Medicine of Universitas Airlangga.

10. The results of the thesis must be published in, at least, a national journal that has an ISSN.

**THESIS PHASES**

In to earn a Bachelor degree of Veterinary Medicine, a student must pass 3 (three) stages of thesis phases namely research proposal/presentation, research result seminar, and thesis defense exam.

**3.6.1 Research Proposal**

1. Research proposal presentation may be conducted by students who have passed the evaluation of their first two years of study and have been approved to get a supervisor for seminar and thesis.

2. Research proposal presentation is led by a Chairperson who is appointed by the Dean/Vice Dean or any other authorized faculty member. The examiners of the research proposal presentation are nominated by the Dean/Vice Dean or other authorized faculty members. Research proposal presentation is deemed legit only if it is attended by at least 1 (one) thesis supervisor and 2 (two) examiners.

3. The research proposal presentation result will be the determining indicator of the research feasibility.
3.6.2 Research Result Seminar

1. Research result seminar may only be conducted by the students with the following conditions;
   a. Have completed research proposal presentation
   b. Have taken at least 140 credit hours
   c. Have no grade E in the previous semesters
   d. Have actively attended at least 10 sessions of seminar
   e. Have revised the proposal based on the feedback given by the board of examiners which is proven by the research evaluation form.

2. The Seminar is led by a chairperson who is appointed by Dean/Vice Dean or any other authorized faculty member. The seminar is deemed legit only if it is attended by at least 3 people, comprising a minimum of 1 *(one) supervisor and 2 (two) examiners. In the event that the examiners are unable to reach agreement whether or not the proposal is eligible to pass the evaluation, the final decision will be made by the Dean/Vice Dean.

3. The final grade of seminar is determined by the grade earned in the seminar session. The seminar passing grade is 70 (seventy) or B. If a student is unable to reach the passing grade, he or she is required to repeat the seminar within 30 days after the initial seminar.

3.6.3 Thesis defense

A student who is going to do a thesis defense is required to submit a seminar evaluation form which proves that he or she has attended the proposal seminar and the research result seminar for 15 sessions which comprise 7 times of proposal seminar and 8 times of research result seminar.

At least two weeks after doing the research outcome seminar, the students are mandated to do the thesis defense by proposing the application letter for a thesis defense which is addressed to the Dean/Vice Dean I of the Faculty of Veterinary Medicine, Universitas Airlangga. Upon receiving the application letter, the Dean/Vice Dean I will form a committee as follows:

1. Five examiners are to be assigned, including 2 thesis supervisors.
2. The thesis defense is led by an examiner chairperson who is appointed by the Dean/Vice Dean I or any other authorized faculty member. The thesis defense must be conducted simultaneously and is deemed legit if attended by at least 3 examiners which include 1 or 2 supervisors and at least 2 examiners.
3. The examination materials are taken from the thesis and other thesis-related materials.
4. The final grade of the thesis is solely determined by the result of the defense. The passing grade of the thesis defense is 70 or B.
5. When the passing grade is not achieved, the student will have to rearrange a thesis defense within 30 days of the initial examination.
6. In the event that the examiners are unable to reach agreement whether or not a student is eligible to pass the examination, the final decision will be made by the Dean/Vice Dean.
3.7 GRADING POINTS AND PREDICATES
By the end of an academic year, the final evaluation of Bachelor of Veterinary Medicine will be conducted through the finalization of Grade Point Average which is elaborated in the following:
3.7.1 The grade predicates consists of 3 levels: satisfactory, very satisfactory, and with distinction that appear on the academic transcript
3.7.2 Grade Point Average is used as the determining factor for final grading which is classified as follows:
   GPA of 2.00 – 2.75 : satisfactory
   GPA of 2.76 – 3.50 : very satisfactory
   GPA of 3.51 – 4.00 : with distinction
3.7.3 The predicate “with distinction” takes the maximum length of study that is 4 years into account.

3.8 ACADEMIC LEAVE
3.8.1 An academic leave is a condition when a student is legitimately permitted by the Rector to leave academic activities for one full semester.
3.8.2 An Academic leave is granted only to students who have completed at least 4 semesters in a row or those who suffer from severe health impairment.
3.8.3 During the course of study, the students are permitted to take academic leave for maximum 2 semesters, not in a row.
3.8.4 During the academic leave students must maintain their registered status.
3.8.5 The academic leave is not taken into account in the evaluation of study period.

3.9 STUDENT TRANSFER
Students from other faculties may be eligible to transfer to the bachelor’s degree program at the Faculty of Veterinary Medicine of UniversitasAirlangga under a particular condition in which Student transfer and credit transfer is determined by the number of credentials earned by the students.

4. CURRICULUM & COURSE SYLLABUS
4.1. THE CURRICULUM FOR UNDER GRADUATEOF VETERINARY MEDICINE PROGRAM, VETERINARY MEDICINE FACULTY, UNIVERSITAS AIRLANGGA

<table>
<thead>
<tr>
<th>NO</th>
<th>CODE</th>
<th>SUBJECT</th>
<th>CREDIT</th>
<th>TOTAL</th>
<th>PREREQUISITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>AGI601</td>
<td>Islam</td>
<td>2 0 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AGP101</td>
<td>Christianity</td>
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<td></td>
<td>AGK101</td>
<td>Catholicism</td>
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<td>AGH101</td>
<td>Hinduism</td>
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<td>3.</td>
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### Guidelines of Education Implementation of Bachelor’s Degree Program, FKH Unair 2018

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Practicum Hours</th>
<th>Total Hours</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE120</td>
<td>Bahasa Indonesia</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>BIA101</td>
<td>Basic Veterinary Anatomy</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>BIK101</td>
<td>Veterinary Biochemistry (lecture)</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>BIK102</td>
<td>Veterinary Biochemistry (practicum)</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>-</td>
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<tr>
<td>BIP101</td>
<td>Embriology</td>
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<td>1</td>
<td>2</td>
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</tr>
<tr>
<td>KHR101</td>
<td>Introduction to Veterinary</td>
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**Off Campus**

### SEMESTER II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Practicum Hours</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHU101</td>
<td>Veterinary physiology (lecture)</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>KHU102</td>
<td>Veterinary physiology (practicum)</td>
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<td>1</td>
</tr>
<tr>
<td>BIA201</td>
<td>Veterinary Topographic Anatomy</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>BIA102</td>
<td>Veterinary Histology (lecture)</td>
<td>2</td>
<td>0</td>
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</tr>
<tr>
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<td>Veterinary Histology (practicum)</td>
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<td>2</td>
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<tr>
<td>NUV101</td>
<td>Food Science &amp; Animal Nutrition</td>
<td>2</td>
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<tr>
<td>PHH101</td>
<td>Philosophy of Science</td>
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<td>0</td>
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<td>Ruminants Science</td>
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**Off Campus**

### SEMESTER III

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<tr>
<td>BIA301</td>
<td>Applied Anatomy and Anthology of Selected Topic</td>
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<tr>
<td>FAT401</td>
<td>Veterinary Pharmacology</td>
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<td>KHR103</td>
<td>Poultry and Non Ruminants Science</td>
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<td>BIM201</td>
<td>Virology</td>
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</tr>
<tr>
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<td>Veterinary parasitology</td>
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</tr>
<tr>
<td>KHT301</td>
<td>Animal Feed Technology</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>BIG102</td>
<td>Animal Genetics</td>
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**Off Campus**

### SEMESTER IV

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<th>Practicum Hours</th>
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</tr>
</thead>
<tbody>
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<td>Applied Islamic</td>
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18
### Guidelines of Education Implementation of Bachelor’s Degree Program, FKH Unair 2018

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Guidelines of Education Implementation of Bachelor’s Degree Program, FKH Unair 2018

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The total number of credits for bachelor’s degree program = 148 credits

COURSE SYLLABUS FOR VETERINARY MEDICINE BACHELOR’S DEGREE PROGRAM, FACULTY OF VETERINARY MEDICINE, UNIVERSITAS AIRLANGGA

1. RELIGION 2/0 credit units
ISLAM (AGI601)
This course outlines the concept of God in Islam, faith and devotion and its implementation in the modern life, the nature of human in Islam, law, the human rights and democracy from Islamic perspectives. In addition, it also discusses the Islamic law, the contribution of Indonesian Muslims, ethics, morals, science, technology and arts in Islam, interfaith harmony, civil society and welfare, economics, culture and politics.

CATHOLICISM (AGK101)
This course explores the nature and dimension of human beings, the concept of supreme God, Jesus Christ, moral, ethics, interfaith dialog and harmony, the communal faith, and the church community. It also teaches about science and knowledge, socio-politics, law, human rights, and democracy from Catholic perspectives and women role in the church.

CHRISTIANITY (AGP101)
This course focuses on Christianity as the fundamental source of values and guidance in instilling the christianity characters which upholds human dignity.

HINDUISM (AGH101)
This course focuses on the concept of God (Brahma Widya), the four pathways to God (CaturMarga Yoga), Hinduism views on human nature course I and II; Ethics and morals course I and II; and science and technology from hinduism perspectives course I and II. Moreover it also covers interfaith harmony, the physical prosperousness (Jagadhita), culture as the implementation of Hinduism teachings, politics from Hinduism perspective and Hinduism framework in the reinforcement of justice.

BUDDHISM (AGB101)
This course discusses the nature of God, as described in the Holy Book UDANA VII:3 : the absolute, unconditioal, and unborn is Nibbana (A person who has attained holiness) Arahat; The birth of P. Sidarta, the accomplishment of perfect enlightenment to become Budha; The dissemination of Dharma at Isipatana Garden; The establishment of Sangha. Prior to attaining Budha, a person must become Bodhisatva, possessing MettaKaruna and Mudta and prioritize others than one’s self; The Emptiness Law manifested in 31 world dimensions; Karma as a result of a prior action.

CONFUCIANISM (AGC101)
This course focuses on the sufficient faith in which the Confucianism followers should be able to take responsibility and implement their faith as inclusive, sociable and civilized beings in their community.

2. APPLIED RELIGION

APPLIED ISLAM (AGI401)
This course presents practical Islamic materials especially in the field of
veterinary medicine to equip students with skills to develop and implement the Islamic sharia appropriately. The materials cover Islamic characters, and human existence as God’s creature as well as knowledge and other related skills.

APPLIED CHRISTIANITY (AGP401)
This course focuses on Christianity as the fundamental source of values and guidance in instilling the Christianity characters which upholds human dignity. This course is presented based on the competency-based curriculum which includes some competencies with the contents and topics set by the Directorate General of Higher Education (Dikti).

APPLIED CATHOLICISM (AGK401)
This course explores the nature and dimension of human beings, the concept of supreme God, Jesus Christ, moral, ethics, interfaith dialog and harmony, the communal faith, and the church community. It also teaches about science and knowledge, socio-politics, law, human rights, and democracy from Catholic perspectives and women role in the church. These materials are taught in terms of practical implementation.

APPLIED HINDUISM (AGH401)
This course focuses on the concept of God (Brahma Widya), the four pathways to God (CaturMarga Yoga), Hinduism views on human nature course I and II, Ethics and morals course I and II, and Science and Technology from Hinduism Perspectives course I and II. Moreover, it also covers interfaith harmony, the physical prosperousness (Jagadhita), culture as the implementation of Hinduism teachings, politics in Hinduism perspective and Hinduism framework in the reinforcement of justice.

APPLIED BUDDHISM (AGB401)
This course discusses God, as described in the Holy Book UDANA VII:3 : the absolute, unconditional, and unborn is Nibbana (A person who has attained holiness) Arahat; The birth of P. Sidarta, the accomplishment of perfect enlightenment to become Budha; The dissemination of Dharma at Isipatana Garden; The establishment of Sangha. Prior to attaining Budha, a person must become Bodhisatva, possessing MettaKaruna and Mudta and prioritize others than one’s self; The Emptiness Law manifested in 31 world dimensions; Karma as a result of a prior action.

APPLIED CONFUCIANISM (AGC401)
This course focuses on the sufficient faith in a person, so that one can take responsibility as an inclusive, sociable, and civilized Confucianism follower in the community.

3. CIVICS EDUCATION (NOP101)
This course outlines the archipelago concept, the national defence in terms of defense and security to promote the students’ spirit and awareness in safeguarding our nation.
4. **BAHASA INDONESIA (BAE120)**
   This course focuses on how to write scientific papers in Indonesian language accurately and properly.

5. **PANCASILA (SOB101)**
   This course discusses ways to understand the philosophy of Pancasila as the national identity of Indonesia and the country’s ideology in relation with the social life.

6. **BASIC VETERINARY ANATOMY (BIA101)**
   This course focuses on basic terms of anatomy and how to understand the positions, names, shapes and structures of bones in relation with body skeleton as well as the systemic anatomy of visceral organs of domestic animals.

7. **VETERINARY TOPOGRAPHIC ANATOMY (BIA201)**
   This course explores the structures and functions of head and neck area, fore legs, abdomen, toraxs and rear legs in which each region is elaborated into 3 subtopics: lateral, medial and distal position.

8. **APPLIED ANATOMY AND ANTHOLOGY OF SELECTED TOPICS (BIA301)**
   This course teaches students how to distinguish and identify the shapes, structures, and the position of sensory organs which include visus, auditorius, and integument. In addition, it discusses how to identify the location, names, shapes and structures of visceral organ in chicken. It also presents how to analyse a clinical case through the anatomical approach of domestic animals (dogs, cows, and horses).

9. **VETERINARY BIOCHEMISTRY (LECTURE) (BIK101)**
   This course discusses biomolecule, food digestion, bioenergy, enzyme, carbohydrate metabolism, lipid metabolism, protein and amino acids metabolism, and hormon.

10. **VETERINARY BIOCHEMISTRY (PRACTICUM)(BIK102)**
    This course allows students to conduct the practicum of biochemistry science and do the analysis on the contributing factors of enzimatic reaction and metabolism.

11. **EMBRYOLOGY (BIP101)**
    This course explores the initial concept of organism development, the development of sex organ in embryonic phase, the development of male and female gametes, the developmental process of organism, the pathology of embryo and the advanced development of embryo.

12. **INTRODUCTION TO VETERINARY SCIENCE (KHR101)**
    This course focuses on the relationship of human and animal, animal farming industry, animal behaviour, zootechnique and the effects of environment to animal performance.
13. **VETERINARY PHYSIOLOGY (LECTURE) (KHU101)**
   This course outlines the fundamental knowledge on the physiologic functions of organ system. It covers the functions of organelles and biophysics, functions of autonomic nerves, central nervous system and senses, the functions of skeletal and smooth muscles and the role of alveolar ventilation and gas exchange. Furthermore, it outlines the functions of energy metabolism and thermoregulatory, the heart with its circulatory functions, absorption function in monogastric digestive system of poultry and ruminants, functions of hormone in pituitary, pancreas, adrenal, tyroid and paratyroid, the mechanism of electrolytareabsorption in kidneys and the balance system of acid and base and the functions of blood components.

14. **VETERINARY PHYSIOLOGY (PRACTICUM) (KHU102)**
   The course is presented through practicum activities which consist of the observation of the contraction of skeletal, cardiac and smooth muscles with the help of kymograph so that the impacts of mechanics, temperature and chemical stimulations are observable.

15. **VETERINARY HISTOLOGY (LECTURE) (BIA102)**
   The course features the general structure of a cell (core, cytoplasm, core degeneration, mitosis);organelles and ultrastructure;intercell substances and connective; epithelial, muscle, peripheral blood, bone marrow, cartilage, and bone tissues; the process of reinforcing peripheral nervous system and central nervous system.

16. **HISTOLOGY OF VETERINARY (PRACTICUM) (BIA104)**
   This course discusses the structure of skins and adnexa, blood and heart vessels, lymphatic organs, digestive glands, digestive tract, urinal system, male reproductive system, female reproductive system, endocrine system, respiratory system, eyes, and ears.

17. **ANIMAL NUTRITION& FEED SCIENCE (NUV101)**
   This course discusses the notions of animal feed, nutrition, animal feed formulas, feed ingredients classification & nutritional value, digestion and metabolic processes, feed substance balance, feed requirements, formulating ration using various methods for both ruminant and non-ruminant animals.

18. **PHILOSOPHY OF SCIENCE (PHH101)**
   The philosophy of science discusses the history of science development, the relationship between Philosophy and Science, the foundations of knowledge, the concept of scientific methods underlying all scientific activities, the instruments of scientific thinking including language, mathematics and statistics, and science in moral, social and political perspectives.

19. **RUMINANT SCIENCE (KHR102)**
   Ruminant Sciencediscusses the management of dairy cattle farming (dairy
cows and dairy goats) and beef cattle farming (beef cattle, sheep, and goats). The management includes calf selection (breeds), health and disease control, feeding program, barn system, sanitation and hygiene, human resource development, and business analysis of ruminant farming.

20. **VETERINARY PHARMACOLOGY (FAT401)**
The course discusses introduction to pharmacology and general pharmacology, autonomic drugs, CNS stimulants & muscle relaxants, general anesthesia, local anesthesia, sedatives-hypnotics, analgesics-antipyretics, diuretics, hormones & uterotonic, hemostatic, histamine & antihistamine

21. **POULTRY & NON-RUMINANTS SCIENCE (KHR103)**
The course discusses the management of poultry and non-ruminants farming. The management includes breeding selection, health and disease control, feeding program, barn system, sanitation and hygiene, human resource development, and business analysis of poultry and non-ruminant farming.

22. **BACTERIOLOGY & MYCOLOGY (BIM105)**
This course discusses introduction to microbiology, basics of bacteria and fungi, Gram-positive bacteria (aerobic and anaerobic spore-forming Gram-positive rods, non-spore forming Gram-positive rods), Gram-indeterminate bacteria, Enterobacteriaceae Gram-negative rods, non-enterobacteriaceae Gram-negative rods, basics of fungi, pathogenic fungi.

23. **VIROLOGY (BIM201)**
The course discusses the characteristics of viruses, virus classification, virus replication, pathogenesis of viral diseases, virus seeding, virus counting, viral vaccines, virus identification and isolation.

24. **PARASITOLOGY (BIM204)**
This course discusses the classification, morphology, predilection, host, modes of transmission and life cycle of parasites (Helminths, Protozoa, and Arthropod) in zoonotic and non-zoonotic animals (livestock, pets and wild animals).

25. **ANIMAL FEED TECHNOLOGY (KHT301)**
This course discusses feed nutrition, feed nutrition testing, forage preservation (silage & haylage), agricultural waste processing (ammoniation, alkaline hydrolysis, fermentation), wafer feed making, feedsupplement, minerals, feed preparation, forgery detection, rations homogeneity, and feed experiment.

26. **ANIMAL GENETICS (BIG102)**
Animal Genetics provides a basic understanding of the nature of individual genetic inheritance and animal populations qualitatively and quantitatively, selection system, breeding system of inbreeding and outbreeding, and animal genetic improvements.

27. **VETERINARY PHARMACOTHERAPY AND TOXICOLOGY**

25
This course discusses antibiotics, antacids, antidiarrheal, anthelmintic, chemotherapy, antiprotozoa agents, antiviral drugs, anticancer drugs, introduction to toxicology, toxic plant toxicology, pesticides toxicology, heavy metal toxicology, drug toxicology, and toxic animal toxicology.

28. **FUNGAL AND BACTERIAL DISEASES (KHD201)**
This course studies infectious diseases attacking animals or livestock, causing a large economic loss, and some of them being zoonotic. The subjects of this course include the etiology, epizootiology, pathogenesis, clinical symptoms, diagnostic methods, and control (prevention & treatment) of Anthrax, Clostridiosis, Clostridiosis, Salmonellosis, Mastitis, TBC, Malleus, Brucellosis, Leptospirosis, Pasteurellosis, Ringworm, and Aspergillosis. These subjects can be used as a reference in handling animal diseases caused by bacteria and fungi.

29. **VIRAL DISEASES (KHD202)**
This course discusses: 1) viral diseases in ruminants, non-ruminants and poultry, 2) transmission and pathogenesis of viral diseases in relation to treatment, prevention and disease control.

30. **GENERAL VETERINARY PATHOLOGY (KHU103)**
This course discusses the causes, pathogenesis, macroscopic/microscopic forms of lesions on cells/tissues, calcification and pigmentation, hemodynamic disorders, inflammatory and healing reactions, cell adaptation, growth disorders, and neoplasia, which are caused by infectious or non-infectious agents.

31. **VETERINARY PARASITIC DISEASES (KHD205)**
This course discusses the importance of parasitic disease in animals, the harm caused, pathogenesis, clinical symptoms, diagnosis, control of diseases caused by protozoa, arthropods and helminths, as well as the importance of parasites as vectors in Indonesia.

32. **BASIC RESEARCH METHODOLOGY (PNH496)**
The course includes: Science and research, scientific methods, processes/stages of research, the role of statistics, kinds of research (reviews from a point of view that combine several aspects), research proposals.

33. **ADVANCED RESEARCH METHODOLOGY (PNH497)**
This course discusses the Introduction, basic understanding, and basic elements of design of experiment, kinds of design models, complete random design, multiple comparisons with least significance difference, honestly significance difference, and Duncan’s multiple range tests, orthogonal contrast and orthogonal polynomial, randomized block design, missing data, Latin Square Design, factorial experiment with complete random design, factorial experiments with block designs, factorial experiments with split plot designs, basic concepts of statistics, t test, proportion test, sign test, Wilcoxon test, MannWhitney test, KruskalWallis test, Friedman test, X2 test, regression test and Pearson correlation, and Sperman correlation.
34. **VETERINARY CLINICAL DIAGNOSIS (KHD401)**
This course discusses the anatomical and physiological analysis of large and small animals, through physical and laboratory examination, with the aim of finding physiological and pathological abnormalities in various animal organ systems.

2/1 credit units

35. **POULTRY HEALTH MANAGEMENT (KHD303)**
The course discusses poultry management in relation to disease prevention, both diseases caused by microorganisms and diseases caused by management errors.

2/0 credit units

36. **VETERINARY PHARMACEUTICAL SCIENCE (FAF300)**
This course discusses the philosophy of medicine and medication, the Latin abbreviation and method of prescribing, drugs selection and the basis of Manual for Prime Method of Animal Drugs Manufacturing, dosage and calculation of drug dosage, selection of drug forms and uses in therapy, selection of methods and timing of drug administration, drug therapy according to the patient.

2/1 credit units

37. **VETERINARY SYSTEMIC PATHOLOGY (KHU104)**
This course discusses the causes, pathogenesis, clinical symptoms and some forms of lesions, both macroscopically / microscopically in integumentary system, muscles and joints, respiration system, cardiovascular system, digestive system, urinary system, male and female genitalia systems, nervous system in various types of mammals and ruminants generated by infectious and non-infectious causes.

2/1 credit units

38. **VETERINARY PUBLIC HEALTH (KMV301)**,
This course discusses the legislations of meat, slaughterhouse, slaughtering process, and carcass handling. In addition, the structure and quality of eggs are also discussed.

2/0 credit units

39. **ANIMAL-SOURCED FOOD HEALTH & HAZARD ANALYSIS AND CRITICAL CONTROL POINT SYSTEM (Food Safety Guarantee System) (KMV-302)**
The course discusses the scope of Veterinary Public Health and legislation of milk hygiene, biosynthesis, composition and nutrition, milk properties, milk processing technology, milk borne disease, drug/metal residues and milk damage. This course also discusses definitions, developments, terms of HACCP describing biological, chemical, and physical hazards in food and their control measures, basic requirements and supporting systems for HACCP, preparation of GMP (good manufacturing practice) and SSOP (sanitation standard operating procedure), principles and explanation of HACCP, preparation of quality assurance plan, as well as planning, implementing and overseeing the HACCP system.

2/1 credit units

40. **AQUATIC ANIMAL DISEASES (KHD304)**
The course discusses the importance of bacterial, fungal, viral, parasitic and miscellaneous diseases in fish and aquatic mammals, losses caused, 1/1 credit unit
pathogenesis, clinical symptoms, diagnosis and control, especially for occurrence in Indonesia.

41. **ENTREPRENEURSHIP (MNW101)**  
   This course discusses the characteristics of entrepreneurs, business opportunities, pricing, marketing strategies, Human Resources Development, business negotiations, and business plan.

42. **VETERINARY GENERAL SURGERY (KHB401)**  
   This course discusses surgical equipments, asepsis procedures, types of anesthesia, bleeding and how to stop one, types of injuries and treatments, types of threads, needles and surgical sutures, diagnosis and types of fractures, fracture healing process, hip dislocation and hip dysplasia, types of shock and how to treat them, and fluid therapy. The course is conducted by lecturing, discussion and video screening.

43. **VETERINARY COUNSELING (KLV301)**  
   This course discusses basic knowledge of the scope and role of counseling in the development of healthy farms, and making counseling program for farmers. Subjects include: Planning, scheduling, evaluating a counseling program, assignments, field work systems and field counseling organizations. The course also discusses Human Resource Management (HR) includes: HR framework, HR challenges, recruitment, selection, and leadership.

44. **VETERINARY LEGISLATION (HKD102)**  
   The course discusses legislation, policies, protection norms, livestock utilization and development, animal health, veterinary public health, and quarantine traffic.

45. **INTERNAL DISEASE IN LARGE ANIMALS (KHD301)**  
   The subject given to sixth semester students explains and discusses ways to obtain medical history, causation and pathogenesis of diseases, physical and laboratory examinations, distinguishes various types of diseases, establishes diagnosis and treatment for diseases attacking internal organs in ruminants, horses, and pigs.

46. **INTERNAL DISEASE IN SMALL ANIMALS (KHD402)**  
   The subject is given face-to-face, discussing ways of obtaining a medical history, physical and laboratory examinations, distinguishing various types of diseases, establishing diagnosis and treatment for diseases attacking internal organs in dogs and cats. Mastery of the material is evaluated by a single, multiple, and causal choice tests at the end of the course on each disease of the body system.

47. **ZOONOSIS (KHD302)**  
   The course discusses the definition and classification of zoonotic diseases, humans and animals in relation to the sustainability of infectious diseases, ways of transmission to/from humans, zoonotic disease patterns, and zoonotic disease control measures.
48. VETERINARY RADIOLOGY (FIN401)
Veterinary radiology lectures are held in one semester, discusses the introduction to radiological machines usage, the dangers they pose, and radiation protection. It also discusses how to determine the exact position and layout for radiological examinations and the interpretation and conclusion of radiographic results.

49. PHYSIOLOGY & REPRODUCTION TECHNOLOGY (LECTURE) (BIR201)
The course is held for one semestertlongthroughface-to-face discussions and practicum sessions. Face-to-face discussions cover the history of reproduction and animals breeding, anatomy and physiology of the genitals of cattle, poultry, dogs and cats, semen collection techniques, semen and sperm characteristics, semen processing and preservation techniques, reproductive endocrine, reproductive cycle in cattle, anatomy and physiology of mammary gland, physiology of parturition in cattle, physiology of pregnancy in cattle, artificial insemination techniques, estrus synchronization, superovulation, and embryo transfer. At the end of the course, mastery of the material is evaluated by multiple choice exams and essay.

50. PHYSIOLOGY AND REPRODUCTION TECHNOLOGY 2 (PRACTICUM) (BIR102)
Reproductive Physiology and Technology 2 course is held in practicum manner for one semester long. During the course, students practice how to conduct the collection techniques, how to examine the characteristics and physical properties of cattle semen, how to process semen, how to make frozen semen, how to conduct artificial insemination techniques in cattle. At the beginning of each practicum, a pre-test is conducted. Mastery of materials is assessed throughout the course in the form of written test.

51. VETERINARY IMMUNOLOGY (BII101)
By the end of the course, students will be able to discuss the history of immunology development, the origin of cells and types of immune systems; organs in the immune system; antigen and antibody structures as well as antibody-antigen interactions; cellular basis and regulation of humoral immune response, cellular immune response and differentiation of immune cells; complement system; hypersensitivity reaction; MHC (Major Histocompatibility Complexes) and APC (Antigen-Presenting Cell) in transplant immunology; immunity to infectious diseases; immunoprophylaxis and immunotherapy; factors that affect the immune response; immunodeficiency and autoimmune diseases; cancer immunology; and measurement of immune response.

52. ENVIRONMENTAL HEALTH (LKM405)
This course discusses various types of pollution resulted in household environment, animal husbandry, slaughterhouses, food industries, whether in liquid, solid or gas form, methods for processing and utilizing waste, as well as sanitizers and their applications.
53. **VETERINARY SPECIALIZED SURGERY (KHB402)**
   This course discusses the steps of veterinary surgical procedures in both large animals and small animals including diagnostic techniques, surgical preparation, anesthesia, surgical techniques and postoperative care. The materials are categorized based on the body systems, namely the urogenital system, digestive tract system, integument system, integumentary system and musculoskeletal system.

54. **VETERINARY CLINICAL PATHOLOGY (KHU401)**
   This course discusses the scope of veterinary clinical pathology (hematology, clinical chemistry, clinical microbiology and clinical toxicology), the process of hematopoiesis which includes blood cell function and abnormalities, hemostasis disorders, immunohematological disorders, hematology in exotic and aquatic animals, body fluids, acid-base balance disorders, kidney and liver function disorders, microbiology and toxicology clinics interpretation of laboratory tests in animals.

55. **VETERINARY OBSTETRICS AND GYNECOLOGY (LECTURE) (KHO401)**
   This course is intended to identify various cases in the field of veterinary obstetrics and gynecology.

56. **VETERINARY OBSTETRICS AND GYNECOLOGY (PRACTICUM) (KHO402)**
   The practicum is delivered in various methods: lectures, discussions, demonstrations, and practicums that discuss the scope of materials in veterinary obstetrics and gynecology and its role in Program for Doctor of Veterinary Medicine.

57. **VETERINARY EPIDEMIOLOGY & ECONOMICS (KME417)**
   The course discusses basic concepts of epidemiology, sampling methods, measurement system in epidemiology, descriptive epidemiology, causes of diseases, analytical epidemiology & surveys, field trial designs, system analysis & epidemiological models, veterinary economics in animal health, disease control and risk analysis.

58. **EXPERIMENTAL ANIMAL MANAGEMENT (MNH401)**
   This lecture discusses the definition and important role of experimental animals in researches, developments and applications of science and technology, which includes types of experimental animals that can be used for research purposes as well as cultivation, understanding and implementation of ethics and animal welfare in experimental animals, how to take care of experimental animals, diseases and their handlings in experimental animals, selection of experimental animals for medical research, experimentation techniques, and understanding and implementation of biosafety in experimental animals.

59. **DAIRY COW HEALTH MANAGEMENT (MNS401)**
   This course discusses the history of dairy cows, anatomy and physiology of
dairy cows, feed patterns, calves management, weaning calves management, heifer and lactation management, barn systems, abnormalities, prevention and diagnosis of diseases frequently attacking dairy cows. Course evaluation is carried out by involving soft skills, assignments, mid-term, and final semester examinations.

60. WILDLIFE (LKM106) 2/0 credit units
This course discusses the life of wildlife in general with several reviews concerning conservation, behavior, management, breeding, and health management of wild animals in zoos or conservation parks.

61. VETERINARY ACUPUNCTURE (PKA401) 2/0 credit units
This course explains the philosophy of acupuncture, acupuncture technology, determining acupuncture points, acupuncture research, acupuncture equipment, and the results of acupuncture technology in field.

62. HORSE, DOG, AND CAT MANAGEMENT (MNS402) 2/0 credit units
This course discusses the management system in raising horse, dogs, and cats including introduction to breeds, genetic traits and phenotypes, selection, health and disease control, feeding programs, barn systems, fur and nail care, and sanitation hygiene.

63. VETERINARY FORENSICS (KUH401) 2/0 credit units
This lecture discusses: 1) anamnesis and euthanasia, 2) necropsy procedure, organ examination and diagnosis of disease based on identified pathological abnormalities.

64. BIOPRODUCT, BIOSAFETY AND BIOSECURITY 2/0 credit units
This course discusses: Definition of Bioproducts, Types of Bioproducts (Vaccines; Sera & Steam, Inoculants, Probiotics, Enzymes, Fermented Products), Bioproducts Production Process, Definition of Biosafety, Indonesian Biodiversity, Biodiversity Security Technology, Legislation of biological materials safety (MTA (material transfer agreement), etc.), Identification of Biological Materials as Agro-Bioterrorism agents, Biosecurity at the Laboratory Level, Biosecurity at Inter-Regional Levels, Biosecurity in National Resilience Aspect.
CHAPTER IV
CREDIT UNIT SYSTEM ADMINISTRATION

ADMINISTRATION
The application of academic administration is managed by the Academic Subdivision under the coordination of the Vice Dean I of the Faculty of Veterinary Medicine of Universitas Airlangga.

1. Preparation for Course Enrollment (KRS)

Preparation for course enrollment through filling in the Study Plan Card (KRS) is an activity carried out by students to determine the courses to be taken in the ongoing semester, and the process of filling in the KRS is always carried out through consultation with the academic advisor in each semester. This process is performed online through cybercampus.

2. KRS

For students who are admitted to the university through SNMPTN and SBMPTN, the process of filling in the KRS is available after they have completed the registration administration and have paid for the UKT (Uang Kuliah Tunggal - Single Tuition Fee), while for those who are admitted through JALUR MANDIRI, the same process is available after they have completed the registration administration and have paid for UKT (Uang Kuliah Tunggal - Single Tuition Fee) and SP3 (Sumbangan Peningkatan dan Pengembangan Pendidikan - Donation for Education Development). This requirement must be done by all students online through cybercampus in accordance with the Manual of Education Implementation. The schedule of the process of filling in the Study Plan Card (KRS) is as follows: July 30th - August 10th, 2018 for the odd semester, and January 28th - February 8th, 2019 for the even semester.

3. Filling the form of Study Plan Card
Guidelines of Education Implementation of Bachelor’s Degree Program, FKH Unair 2018

At the beginning of an ongoing semester, students are required to have the Manual of Education Implementation of Faculty of Veterinary Medicine of Universitas Airlangga, MP-IK, and Learning Form. Students are required to get instructions and suggestions from their respective Academic Advisor to discuss about the maximum credit load and courses available to be taken in the ongoing semester.

After students fill in the Study Plan Card (KRS) online via cybercampus and after they have the approval of the Advisor evidenced by her/his signature on the Card (KRS), the Study Plan Card (KRS) is to be submitted to the Sub-Division of Academic of Faculty of Veterinary Medicine of Universitas Airlangga. After the Study Plan Card (KRS) is processed, students will receive 2 (two) sheets of registered Study Plan Card (KRS), and they have to submit one sheet to the Advisor and put the other sheet into their own archive.

If students do not submit the Study Plan Card (KRS) on schedule, they are not permitted to take part in curricular activities.

Changes to the study plan can be carried out no later than one week after the lecture begins and with the approval of the Advisor. The procedure in changing the Study Plan is in accordance with the procedure for filling out the Study Plan Card (KRS).

4. Instructions for Revising Study Plan Card

1. A student plans the courses to be taken along with the credit load available in the ongoing semester through consultation with an Academic Advisor.

2. After being approved by the Academic Advisor, the student encloses the Study Plan Card (KRS) sheet in the provided columns/spaces.

3. After being filled in correctly, the Study Plan Card (KRS) is to be signed by the student and by the Advisor as an approval.

4. After being received and processed, the student receives 2 (two) sheets of registered Study Plan Card (KRS), 1 (one) sheet for the student’s archive and 1 (one) sheet to be submitted to the Academic Advisor.

5. Students who plan to change the Study Plan Card (KRS) must obtain the approval of the Academic Advisor and then must report to the Academic Sub-Division of the Faculty of Veterinary Medicine of Universitas Airlangga to fill the Revised Study Plan Card (KPRS).

6. After being filled by the student and signed by the Advisor, the Revised Study Plan Card (KPRS) is to be handed back to the Academic Sub-Division of the Faculty of Veterinary Medicine of Universitas Airlangga. The student then receives 2 (two) sheets of registered Revised Study Plan Card (KPRS) signed by the Officer of the Academic Sub-Division, 1 (one) sheet for the student and 1 (one) sheet to be submitted to the Academic Advisor.

5. Examination and Exam Results
Two weeks after the final examination (UAS), a course coordinator (PJMK) for each subject must release the Final Grade through cybercampus. The listed score is a combination of the scores achieved by students through the quiz/assignment/practicum/soft skill/mid-term and final examinations (see CHAPTER III Exam Evaluation). The Final Grade is then submitted to the Academic Sub-Division in accordance with the form specified. The score is then input into the Study Result Card (KHS) and is made into 4 (four) copies, each for students, Advisors, Academic Subdivision archives and student parents. The Grade Point Average is issued by Academic Sub-Division and sent to the Academic Advisors of the students.

6. Student Attendance in the Lecture Process

6.1. The presence of a student in a lecture is archived through the Presence List for each course per semester.
6.2. In each taken course, students must sign on the Presence List provided.
6.3. If a student is unable to attend a lecture, he/she must provide a certificate of absence no later than 1 (one) week after the lecture. If the report is not provided within 1 (one) week, the absence will be taken into account at the end of the course.
6.4. A new student and a student who retakes a course due to E score are allowed to take the exam of the courses if they attend at least 75% (seventy five percent) of the total meetings of the taken lecture and attend 100% (one hundred percent) of meetings of Practicum, for those who are retaking courses due to D score must attend the lectures at least 75% (seventy five percent) of the total meetings of the retaken lectures.

7. Academic Advisor's Responsibility

An advisor is to simplify and to ensure the delivery of education and lectures. The responsibilities of an advisor are as follows:
7.1. To check the requirements that students must fulfill, in order for them to be able to take part in the education program in the ongoing semester.
7.2. To direct and to assist students in filling out the Study Plan Card (KRS) and the Achievement Plan Card (KRP) and to give advice to students regarding available courses that may be taken in the current semester.
7.3. To provide advice regarding the credit load taken by students according to the students’ Grade Point Average at the end of the previous semester.
7.4. To ensure that students of Semester I and II take all courses programmed in those semesters.
7.5. To archive each of his/her assigned students’ KRS, KRP, KHS, and KHP.
7.6. To monitor the progress of each student whom s/he is responsible for in order to prevent and to overcome any possible obstacle the students face.
7.7. To provide consultation for students whom s/he is responsible for, especially for those who have difficulty in completing their studies.
7.8. The tasks listed in this provision will be subjects of elaboration in the future. In order to carry out the aforementioned tasks properly, an Academic Advisor must:
   a. Understand the procedures in administering education and lectures according to the credit unit system.
b. Understand the rules and obey the rules that are regulated to facilitate the implementation of education and lectures.

c. Provide sufficient time to actively interact with students regarding their study progress study.

d. Sign Academic Advisement Report book (bukuLaporanBimbinganAkademik) at least 3 times in each semester.


8. Rules of Lecture, Practicum, and of Exam

In order for the education and the lecture process to be delivered smoothly according to the objectives of education and study, Codes of Conduct must be consistently implemented, as further described in the followings:

8.1. General Rules of Conduct
a. Students must behave politely towards fellow students, lecturers, assistants and employees (Academic Community) to ensure good relationships with one another.

b. Students must comply with the rules and conditions governed by their study program.

8.2. Rules of Conduct in Lecture and Practicum
During the lecture and practicum, students are required to comply with the following conditions:

a. Be polite towards the Lecturer/Assistant.

b. Dress cleanly, neatly, politely, and properly; T-shirt is prohibited.

c. The lateness of student in lectures and in practicum is of 15 minutes at maximum.

d. Smoking in the lecture room and in interaction with the Lecturer/Assistant is prohibited.

e. Leaving the class during the lecture and practicum (except with the permission of the relevant Lecturer/Assistant) is prohibited.

f. Inactivating Mobile Phone (HP) during the lecture and practicum is a must.

Rules of Mid-term (UTS) and Final Examinations (UAS)
1. In taking the quiz/ tentamen/ structured/ practicum/ Mid-term Exam (UTS)/ Final Exam (UAS), students are required to comply with the following conditions:

a. To occupy a predetermined room and seat

b. To present a valid student card and stationery during the exam
c. To place notebook and non-active mobile phone to the designated place.

d. To sign the attendance list provided

2. During the exam, it is **prohibited** for students to do the followings:
   a. To talk to fellow test takers
   b. To cheat with other participant(s), to request blank sheet from other participant(s)
   c. To open any notebook in any form
   d. To perform other actions that can be equated with points b and c
   e. To perform actions that are potentially disruptive to the examination
   f. To take any photographs, both of question sheet and of answer sheet.

3. All test takers must submit the question sheet and the answer sheet of the test.

4. A student who takes the exam to assist another student is considered academic misconduct, both the assistance and the assisted student will be subject to sanctions for 2 (two) semesters and all SCORES in the ongoing semester are aborted.

5. A student who cannot take the exam is required to submit a supporting document and valid reason to be put into consideration over whether or not s/he is allowed to have the follow-up exam. The exam is delivered no later than **1 WEEK** after the scheduled exam takes place.

6. Any violation committed by a student may result in him/ her be dismissed from the exam room and the exam score for the course cannot be processed.

9. **Academic Calendar for 2018/ 2019**

   In general terms, the academic calendar **is as follows**:

   | Start of Odd Semester     : August 2018 |
   |---------------------------:|--------------------------|
   | Start of Even Semester    : January 2019 |
   | Lecture Activities        : 14 weeks |
   |                           : August 13 - November 30, 2018 (Odd) |
   |                           : February 11 - May 31, 2019 (Even) |
   | Enrolment                 : July 16 - 27, 2018 (Odd) |
   |                           : January 14 – 25, 2019 (Even) |
   | Course Enrolment (KRS)    : July 30 – August 10, 2018 (Odd) |
   |                           : January 28 - February 8, 2019 (Even) |
   | Mid-term exam             : October 1 – 12, 2018 (Odd) |
   |                           : April 1 – 12, 2019 (Even) |
   | Final exam                : December 3 – 14, 2018 (Odd) |
   |                           : June 10 - 21, 2019 (Even) |
Christmas holiday: December 24-25, 2018
Eid al-Fitr Holiday: June 5 – 6, 2019
Inter-Semester Break: June 18 - July 28, 2018 (Odd)
                        December 17, 2018 - January 26, 2019 (Even)

LIST OF LECTURERS OF
FACULTY OF VETERINARY MEDICINE OF
UNIVERSITAS AIRLANGGA

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<th>NO</th>
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<td>1.</td>
<td>VETERINARY ANATOMY</td>
<td>Dr. Soeharsono, drh., M.Sc.</td>
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<td>Dr. EkaPramyrthaHestianah, drh., M.Kes</td>
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<td>Dr. Widjiati, drh., M.Sc.</td>
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<td>Prof. Dr. Sarmanu, drh., MS.</td>
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<td>Prof. Dr. TatangSantanuAdikara, drh., MS.</td>
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<td>Dr. Benjamin Chr. Tehupuring, drh., M.Si.</td>
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<td>Hana Eliyani, drh., M.Kes.</td>
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<td>Dr. YeniDhamayanti, drh., M.Kes.</td>
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<td>Gracia Angelina Hendarti, drh., M.Si.</td>
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<td>Prof. Dr. BambangPoernomo S., drh., MS.</td>
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<td>Dr. Epy Muhammad Luqman, drh., M.Si.</td>
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<td>Dr. MaslichahMafruchati, drh., M.Kes.</td>
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<td>Chairul Anwar, drh., MS.</td>
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<td>SuryoKuncorojakti, drh., M.Vet.</td>
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<td>LitaRakhmaYustinasari, drh., M.Vet.</td>
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<td>2.</td>
<td>VETERINARY REPRODUCTION</td>
<td>Dr. Abdul Samik, drh., M.Si.</td>
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<td>SuzanitaUtama, drh., M.Phil., Ph.D.</td>
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<td>Prof. Mas'udHariadi, drh., M. Phil., Ph.D.</td>
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<td>Prof. Dr. Ismundiono, drh., MS.</td>
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<td>Dr. Erma Safitri, drh., M.Si.</td>
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3. **VETERINARY PUBLIC HEALTH**
   - Dr. Mustofa Helmi Effendi, drh., DTAPH
   - Budiarto, drh., MP.
   - Dr. Nenny Harijani, drh., M.Si.
   - Dr. A.T. Soelih Estoepangestie, drh..
   - Dr. Dadik Rahardjo, drh., M.Kes.
   - Dhandy Koesomowardhana, drh., M. Vet.

4. **VETERINARY PATHOLOGY**
   - Arimbi, drh., M.Kes.
   - Dr. Hani Plumeriastuti, drh., M.Kes.
   - Dr. Thomas V. Widjatno, drh., M.Kes.
   - Djoko Legowo, drh., M.Kes.

5. **VETERINARY PARASITOLOGY**
   - Dr. Poedji Hastutiek, drh., M.Si.
   - Dr. Endang Suprihati, drh., M.S.
   - Prof. Dr. Setiawan Koesdarto, drh., M.Sc.
   - Prof. Dr. Lucia Tri Suwanti, drh., MP.
   - Muhammad Yunus, drh., M.Kes., Ph.D.
   - Prof. Dr. Nunuk Dyah Retno Lari, drh., M.S.
   - Dr. Mufasirin, drh., M.Si.
   - Dr. Kusnoto, drh., M.Si.
   - Agus Sunarso, drh., M.Sc.

6. **VETERINARY BASIC MEDICAL SCIENCE**
   - Dr. Nove Hidajati, drh., M.Kes.
   - Ratna Damayanti, drh., M.Kes.
   - Prof. Sri Agus Sudjarwo, drh., Ph.D.
   - Prof. Dr. M. Lazuardi, drh., M.Si.
   - Dr. Rahmi Sugihartuti, drh., M.Kes.
   - Dr. Lilik Maslachah, drh., M.Kes.
   - M. Sukmanadi, drh., M.Kes.
   - Prof. Dr. Chairul Anwar Nidom, drh., M.S.
   - Prof. Dr. Dewa Ketut Meles, drh., M.S.
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   - Dr. Eduardus Bimo Aksono, drh., M.Kes.
   - Dr. Kadewi Rachmawati, drh., M.Kes.
   - Dr. Kuncoro Puguh S., drh., M.Kes.
   - Dr. Roemah Kurnijasanti, drh., M.Sc.
   - Retno Sri Wahjuni, drh., MS.
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Dr. E. Djoko Poetrananto, drh., MS.  
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Prof. Dr. Rahaju Ernawati, drh., M.Sc.  
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| 9. | **ANIMAL HUSBANDRY** | Dr. Mohammad Anam Al Arif, drh., MP.  
Sunaryo Hadi Warsito, drh., MP.  
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Prof. Dr. Mirni Lamid, drh., MP.  
Dr. Sri Hidanah, Ir., MS.  
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