



SCHOOL OF VETERINARY MEDICINE  
AND BIOMEDICAL SCIENCES  
IPB UNIVERSITY



# ACADEMIC GUIDEBOOK

*“To Harmonize Animal, Human,  
and Environmental Health”*

## SNAPSHOT THE SCHOOL OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES IPB UNIVERSITY

The main objective of veterinary medicine education at SVMBS IPB University is to produce skillful bachelor in veterinary medicine (BVM) and Doctor of Veterinary Medicine (veterinarian, DVM) with good entrepreneurship and high competitiveness at regional and international levels

Total Alumni  
**7,213**  
(Doctor of Veterinary Medicine)\*

Total Academic Staff: **104**  
**72.8%** of lecturers have doctoral degree  
**20.3%** of lecturers are professors

Total Supporting Staff: **128**

Owning a **Veterinary Teaching Hospital (RSHP)**, **Integrated Laboratory** accredited by ISO 17025, and **Diagnostic Service Unit.**



**The only School of Veterinary Medicine and Biomedical Sciences accredited A (excellent) since 2007**

by National Accreditation Board for Higher Education



**Graduates find employment in less than 3 months**

\*until June 2022

# Foreword from The Dean

Veterinary Medical education has showed rapid development due to high demand of veterinarian to give veterinary services for animal health and also in the quality assurance of food of animal origin and public health. As the oldest educational institution in the veterinary medical education in Indonesia, School of Veterinary Medicine and Biomedical Sciences, SVMBS IPB University has a long history in providing good quality education and outstanding veterinarians in the country. Prominent students not only come from all regions of the country but also foreigners from neighboring countries. In the respond to the mandate from the Indonesian Government to IPB University in providing english speaking lectures to foreign students, School of Veterinary Medicine and Biomedical Sciences IPB University started to provide english version for student guidance and lecture materials.

This book covers academic information, rules, ethics as well as daily useful information which are important to support foreign students during their periode of study in this School.



I acknowledge the support of IPB University rector and excellent work of the team which has made the book become possible. May God bless us always.

**Prof. drh. Deni Noviana, PhD, DAiCVM**  
Dean of SVMBS IPB University

### Profile

Professor of Radiology  
Graduated from The United Graduate School of Veterinary Science Yamaguchi University Japan,  
Held prominent positions such as Dean of School of Veterinary Medicine and Biomedical Sciences,  
President of Indonesian Animal Hospital Association (IAHA),  
Executive Board Representative Country Secretary of the Asian College of Veterinary  
Internal Medicine (AICVIM)

# A Brief History

SVMBS IPB University is the first faculty of veterinary medicine and a trend setter veterinary education in Indonesia. Veterinary education in Indonesia has started since 1860 in Surabaya and was closed in 1875. Because of the outbreaks of Rinderpest in Indonesia, in 1906 veterinary medical education was re-established and named *Cursus tot Opleiding voor Indische Veearts* in Surabaya and then moved to Bogor with the name of Animal Disease Research Institute (LPPH, now Veterinary Research Institute). In 1928 *Nederlands Indische Veeartsen School* (NIVS, School of Veterinary Medicine Dutch East Indies) was also established in the city of Bogor. Then in 1942 the name of NIVS was changed into Bogor *Jyui Gakko* and after the independence of the Republic of Indonesia the name was turned into Veterinary School (*Sekolah Dokter Hewan*, SDH). This SDH was upgraded in 1946 to College of Veterinary Medicine (Perguruan Tinggi Kedokteran Hewan, PTKH) which then was closed for a while.

In 1948 PTKH was reopened and became *Faculteit voor Diergeneeskunde* which was a part of *Universiteit van Indonesie* and in 1950 the name was changed into the Faculty of Veterinary Medicine, University of Indonesia (Fakultas Kedokteran Hewan Universitas Indonesia, FKH UI). In 1960, FKH UI was changed its name to the Faculty of Veterinary Medicine and Animal Husbandry (*Fakultas Kedokteran Hewan dan Peternakan*, FKHP) UI, then in 1962 its name was returned to the Faculty of Veterinary Medicine University of Indonesia, while the Animal Husbandry became the Faculty of Animal Husbandry and Seawater Fisheries (*Fakultas Peternakan dan Perikanan Laut*, FPPL) UI.

On September 1, 1963 based on the Ministry Decree of Higher Education and Science (*Menteri Pendidikan Tinggi dan Ilmu Pengetahuan*, PTIP) Number 91/1963 and subsequently endorsed by the Presidential Decree Number 279/1965, IPB University was formally established with five faculties, namely: Faculty of Agriculture (derived from the Department of Agriculture Faculty of Agriculture UI), Faculty Forestry (derived from the Department of Forestry Faculty of Agriculture UI), Faculty of Veterinary Medicine (derived from the Faculty of Veterinary UI), Faculty of Animal Husbandry (derived from the Faculty of Animal Husbandry and Seawater Fisheries UI), and the Faculty of Fisheries (a joint from the Department of Freshwater Fisheries, Faculty of Agriculture and the Department of Seawater Fisheries, Faculty of Veterinary Medicine and Animal Husbandry UI).

From a review of history it shows that the Faculty of Agriculture and the Faculty of Veterinary Medicine are two faculties which further developed the Faculty of Fisheries and Marine Sciences, Faculty of Animal Science, and the Faculty of Forestry. From these five faculties in IPB University, they developed other faculties later. Based on rector's decree, in December 2021 Faculty of Veterinary Medicine has changed to School of Veterinary Medicine and Biomedical Sciences.

Since its establishment until the year of 2000, SVMBS IPB University occupied the main campus in Taman Kencana, Bogor, as well as two other campuses in Pajajaran and Cilibende. In 2001, SVMBS IPB University occupied a new building in Dramaga Campus (Figure 1.3.2). SVMBS has a new animal hospital in Dramaga Campus and veterinary clinic units in Taman Kencana as a satellite of the Animal Hospital.

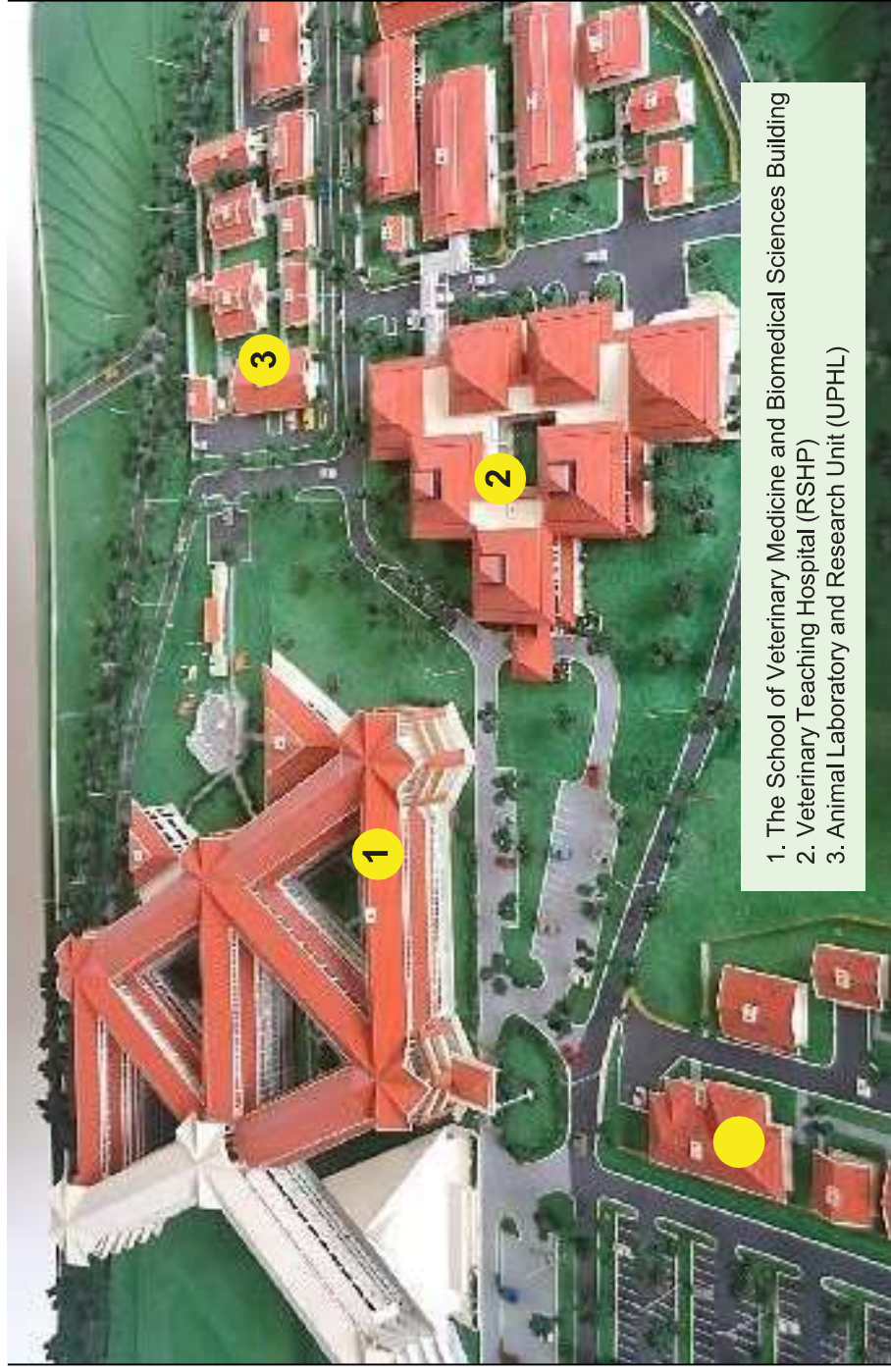
“SVMBS IPB University is the first Faculty of Veterinary Medicine and a trendsetter of veterinary education in Indonesia.”



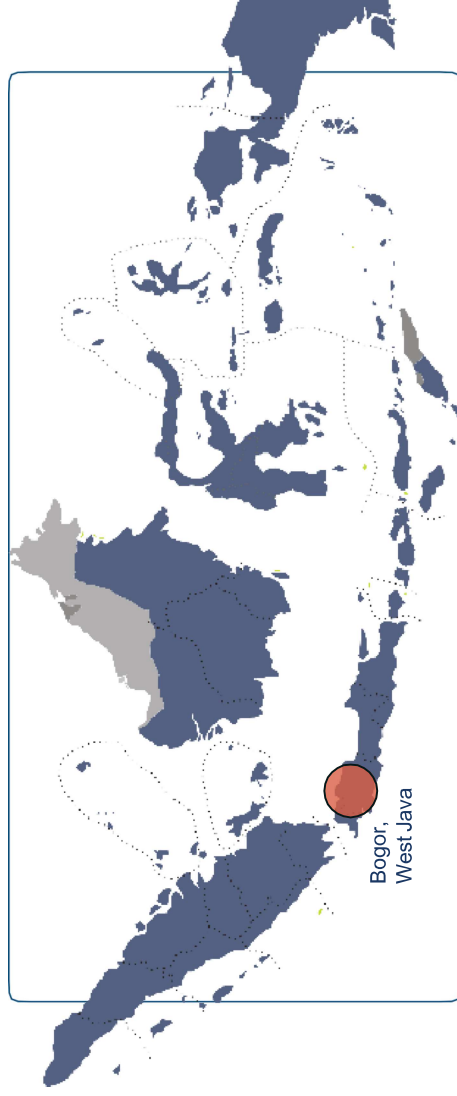
# The Faculty Campus

Jl. Agatis, Kampus IPB Dramaga, Bogor,  
West Java 16680  
Tel. +62-251-8629459, 8629469, 8629470  
e-mail: [sktb@apps.ipb.ac.id](mailto:sktb@apps.ipb.ac.id)  
website: [sktb.ipb.ac.id](http://sktb.ipb.ac.id)

The School of Veterinary Medicine and Biomedical Sciences an Campus is located in Bogor City. The closest train station is Bogor Station. With easy access to neighboring cities, the campus is just 60 minutes from Jakarta on commuterline, making it convenient for students to commute from out of town. The rich natural surrounding provides students an ideal environment to study.



1. The School of Veterinary Medicine and Biomedical Sciences Building
2. Veterinary Teaching Hospital (RSHP)
3. Animal Laboratory and Research Unit (UPHL)





## VISION AND MISSION

### VISION

To realize superior veterinary and biomedical study programs based on innovative human resource development and science and technology research to produce highly competitive graduates by 2035.

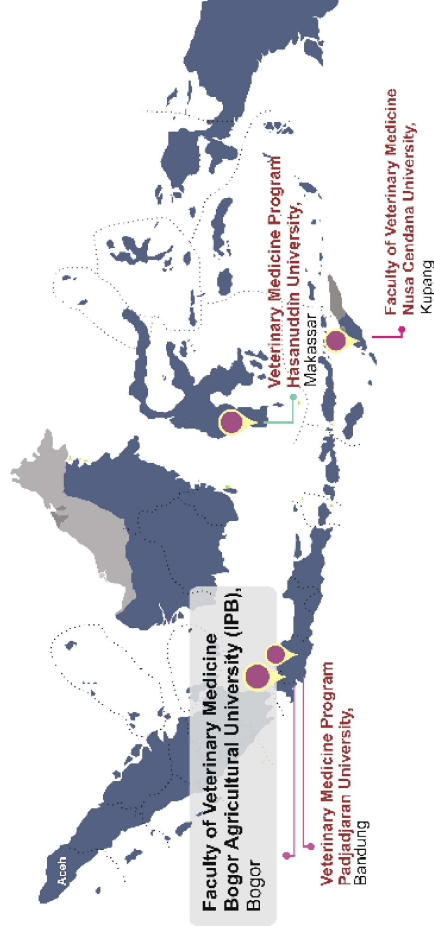
### MISSION

- Organizing innovative competency-based and student-centered veterinary and biomedical *education* at the undergraduate, postgraduate, professional, and veterinary levels to produce graduates ready to face technological developments (technology changing) and future challenges (*future-ready*).
- Promote lifelong learning patterns and facilitate the acquisition of new knowledge and skills through *continuing professional development* (CPD).
- Building a professional culture that can adapt, inspire innovation, and build an entrepreneurial mindset (*techno-socio entrepreneurship*) to support the implementation of sustainable national development through quality research and *community service* activities.
- Expanding influence as an educational institution trusted and respected by all stakeholders and plays a role in improving people's lives through animal health, animal husbandry, and biomedicine through harmonizing animal, human, and environmental relationships (*One health*).



## FEATURES

# Features of SVMBS IPB University



SVMBS IPB University becoming advisor of 3 new School of Veterinary Medicine and Biomedical Sciences in Indonesia (Hasanuddin, Nusa Cendana, and Padjadjaran University)

## NATIONAL COMPETENCY TEST AVERAGE SCORE



Highest average score in National Competency Test of all School of Veterinary Medicine and Biomedical Sciences graduates (Doctor of Veterinary Medicine, Drh) in Indonesia since 2012. The pass rate for the graduates reached 100% in 2016.

## EMPLOYMENT

A wide range of job options will be available to students upon graduation, varying from veterinary clinic, university, medicine related companies, research institutes, government institution, conservation foundation, poultry farms, dairy companies, etc. Graduates find employment in less than 3 (three) months



## FACILITIES

### SVMBS IPB University Attached Facilities

#### SVMBS IPB University Animal Teaching Hospital (RSHP)



The campus has a Veterinary Teaching Hospital (RSHP) in Dramaga Campus, which is the prominent animal hospital in South East Asia equipped with the state-of-the-art and complete facilities.



SVMBS IPB University also has an Satellite Clinic in Taman Kencana - Bogor,. Both of RSHP and Satellite Clinicable as to educate veterinary profession students or veterinary practitioner with advanced knowledge and skills.



visit: [www.rshpfbk.ipb.ac.id](http://www.rshpfbk.ipb.ac.id)



## FACILITIES

The other facilities support the SVMBS IPB University include fourth-floor building in the area of 18,000 m<sup>2</sup>, Reproductive Rehabilitation Unit (URR), Vaccine and Biology Material Production Unit, Animal Laboratory and Research Unit (UPLH), Meat Assurance Unit, Integrated Laboratory Unit. Additional facilities are the library, café, alumni store, student cyber (computing unit), and center for student activity. These provide a conducive atmosphere in supporting education process.



Reproductive Rehabilitation Unit (URR)



Animal Laboratory and Research Unit (UPLH)



Integrated Laboratory Unit



Urban Vector Control Research Unit (UKPHP)



IPB University Clinic



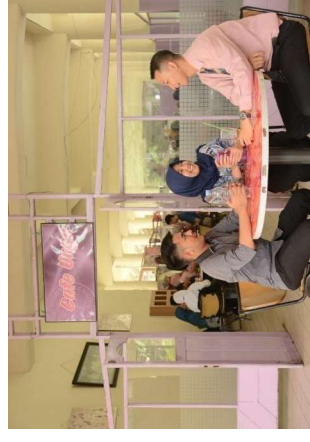
International Dormitory



SVMBS IPB University Library



IPB University Library



Cafeteria



Gymnasium and Sport Facilities

# INTEGRATED LABORATORY

School of Veterinary Medicine and Biomedical Sciences

Integrated laboratory has equipment/ facilities that support the microbiology research to the molecular level that can be utilized by the Undergraduate and Graduate students.

Facilities in the Integrated Laboratory include freeze dry, ultracentrifuge, spectrophotometers, deep freezer, electrophoresis, SDS-page, FPLC, PCR, transilluminator, ELISA reader and Instron Warner-Brätzler Shear can be used optimally for research activities.



- Bacteriological examination: TPC, coliform, etc
- Serological examination: HI AI, HI ND, ELISA IB, ELISA IBD
- Isolation and Identification of virus
- Molecular examination using PCR and realtime PCR
- Specific antibody production





## Three Departments of The SVMBS

Since 2005, SVMBS IPB University has three departments, i.e., Department of Anatomy Physiology and Pharmacology (AFF), Department of Animal Diseases and Veterinary Public Health (IPHK), and Department of Clinic, Reproduction and Pathology (KRP).

### Department of Anatomy Physiology and Pharmacology

AFF

To become a leading department in the development of science and technology in the field of veterinary anatomy, histology and embryology, physiology, pharmacology and toxicology.

Department of Anatomy Physiology and Pharmacology is divided into three divisions:

1. Division of Anatomy Histology and Embryology
2. Division of Physiology
3. Division of Pharmacology and Toxicology



### Department of Clinic Reproduction and Pathology

KRP

To become a leading department in the development of science and technology in the field of clinical diagnostic, internal medicine, veterinary surgery, radiology, animal reproduction, and pathology.

Department of Clinic Reproduction and Pathology is divided into three divisions:

1. Division of Internal Medicine
- Subdivision of Pharmacy
2. Division of Surgery and Radiology
3. Division of Reproduction and Obstetric
4. Division of Pathology



### Department of Animal Diseases and Veterinary Public Health

IPHK

To become a leading department in the development of science and technology in the field of microbiology, parasitology, immunology, epidemiology and veterinary public health (food hygiene of animal origin, sanitary and zoonoses) in the interests of animal disease control, improvement of the quality of animal health, the environment and society.

Department of Animal Diseases and Veterinary Public Health is divided into three divisions:

1. Division of Veterinary Public Health
2. Division of Medical Microbiology
3. Division of Parasitology & Entomology



# Undergraduate and Veterinary Profession Education Programme

The programme in SVMBS IPB University is divided into two programmes, i.e. Undergraduate Programme (8 semesters, 158 credits) with the degree Bachelor of Veterinary Science' (Sarjana Kedokteran Hewan) and Veterinary Profession Education Programme (18 months, 37 credits) with the degree 'Doctor of Veterinary Medicine' (Dokter Hewan).

The programme is implemented through the curriculum: preclinical, paraclinical, and clinical subjects. Through this method, the students will be aware that the science and technology in veterinary medicine is always developed.

The curriculum is delivered in both methods, i.e. tutorial class and student centered learning. Most of subjects in the undergraduate programme are delivered in tutorial class, however the practical works, field works, and clinical subjects are delivered using student centered learning method. In the other hand, all subjects in the veterinary profession education programme are delivered using student centered learning, to stimulate them to be long-life learners.

**“The programme is implemented through the curriculum: preclinical, paraclinical, and clinical subjects.”**



## Courses mapping

### First Common Year

Religion  
Civics  
Bahasa Indonesia  
English  
Sport and Art  
Introduction to Agriculture Science  
Basic Mathematics  
Introduction to Entrepreneurship  
Introduction to Veterinary Medical Profession  
General Economy  
General Sociology

### Preclinical

Chemistry  
Basic Biology  
Veterinary Anatomy I  
General Biochemistry  
Veterinary Anatomy II  
Veterinary Histology I  
Veterinary Histology II  
Embryology and Developmental Genetics  
Physiology I  
Physiology II  
Scientific Methodology  
Veterinary Legislation and Ethics

### Paraclinical

Topographic and Region Anatomy  
Reproductive Science and Technology  
Pharmacology I  
Veterinary Immunology  
Veterinary Parasitology: Ectoparasites  
Introduction to Nutritional Science  
Dietary Formulation Techniques and Feed Information System  
Veterinary Parasitology: Endoparasites  
Medical Biochemistry  
Veterinary Bacteriology and Mycology  
Veterinary Virology  
General Pathology  
Statistical Method  
Systemic Pathology I  
Pharmacology II  
Obstetrics and Gynaecology  
Public Health  
Bacterial and Mycotic Diseases

Viral Diseases  
Veterinary Immunology  
Hygiene of Food of Animal Origin  
Avian Pathology  
Zoonoses  
Animal Welfare  
Veterinary Epidemiology and Economy  
Veterinary Toxicology  
Systemic Pathology II  
Elective Subject Courses I : Animal Behaviour  
Elective Subject Courses I : Animal Laboratory Health Management  
Elective Subject Courses I : Biomedical Instruments  
Elective Subject Courses II : Aquatic Animal Health Management  
Elective Subject Courses II : Wildlife Health Management  
Elective Subject Courses II : Poultry Health Management

### Clinical

Veterinary Clinical Diagnostics  
General Surgery  
Internal Medicine I  
Radiology  
Special Surgery I  
Internal Medicine II

Clinical Pathology  
Clinical Demonstration  
Clinical Dietetic  
Pharmaceutical Preparation and General Therapy  
Special Surgery II



## Graduate Programme

The SVMBS IPB University provides also continuing education programme for veterinarians and graduate programmes, i.e., master programme (S2) and doctorate programme (S3).

### Department of Anatomy Physiology and Pharmacology

AFF

1. Animal Anatomy and Development (APH) (Master Degree)
2. Physiology and Pharmacology (IFO) (Master and Doctoral Degree)

### Department of Animal Diseases and Veterinary Public Health

IPHK

1. Veterinary Public Health (KMV) (Master and Doctoral Degree)
2. Medical Microbiology (MKM) (Master Degree)
3. Medical Parasitology & Entomology (PEK) (Master and Doctoral Degree)

### Department of Clinic Reproduction and Pathology

KRP

1. Animal Biomedical Science (IBH) (Master and Doctoral Degree)
2. Reproductive Biology (BRP) (Master and Doctoral Degree)

There are five student entrance schemes (**Undergraduate Programme**), i.e., invitation based on high school academic performance (*Seleksi Nasional Masuk Perguruan Tinggi Negeri/SNMPTN*), national written test (*Seleksi Bersama Masuk Perguruan Tinggi Negeri/SBMPTN*), local government scholarship (*Beasiswa Utusan Daerah/BUD*), university written test (*Ujian Talenta Mandiri IPB University/UTMI*), and Overseas Student Entrance Selection for International students.



# Extracurricular

There are four student clubs with specific interest (pet and aquatic animals, poultry, ruminant, and wildlife) in SVMBS IPB University, which facilitate the students with trainings and expose them to each specific veterinary field. The SVMBS IPB University provides also regular continuing education programme for veterinarians.



# List of International Collaboration in Research and Education

Universities	Country/Region	Affiliated Partners
	Germany	University of Göttingen University of Giessen University of Munich University of Hannover University of Edinburgh Utrecht University University of Miyazaki Tokyo University Yamaguchi University Obihiro University Nagoya University Hokkaido University
	United Kingdom Netherlands Japan	
	Australia	Queensland University Sydney University
	Malaysia Timor Leste	Universiti Putra Malaysia Universidade Nacional Timor Lorosa'e
Global Institutions		FAO, WHO, OIE, IDP, USAID, EU, JICA







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