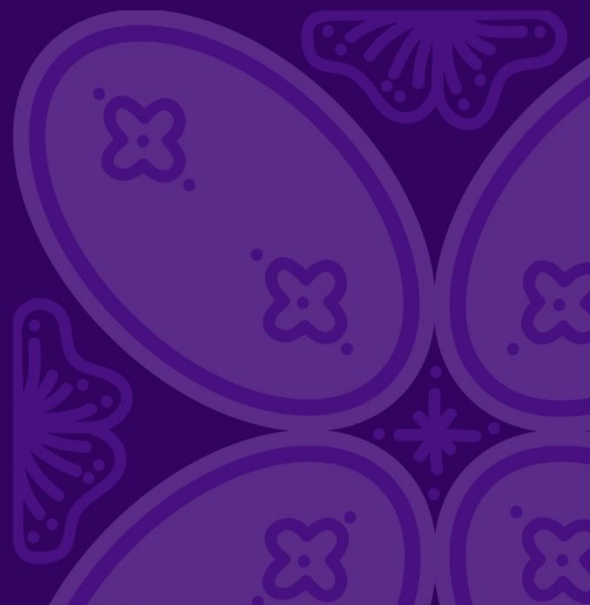
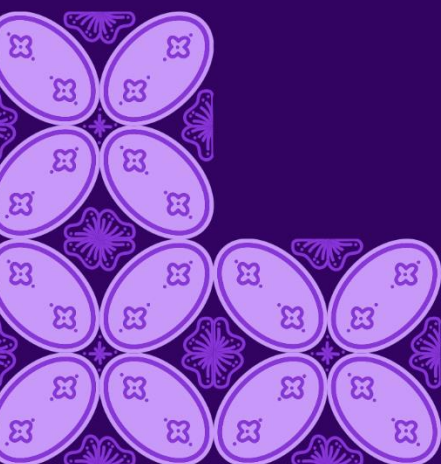




IPB University
— Bogor Indonesia —



**CURRICULUM
DOCTORAL PROGRAM (S3)
STUDY PROGRAM OF ANIMAL BIOMEDICAL SCIENCE
(WITH INTEREST)**



**CURRICULUM OF DOCTORAL PROGRAM
STUDY PROGRAM OF ANIMAL BIOMEDICAL SCIENCE
(WITH INTERESTS)**



**SCHOOL OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCE
IPB UNIVERSITY
2023**

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CURRICULUM OF DOCTORAL PROGRAM
BY COURSE
STUDY PROGRAM OF ANIMAL BIOMEDICAL SCIENCE
(WITH INTERESTS)

Code	Subject	Credits	Semester
Common Course (CC) – 2 credits			
PPS 702	<i>Philosophy of Science</i>	2(2-0)	Odd
Foundational Course (FC) - 2 credits			
SVB1701	<i>One Health</i>	2(2-0)	Odd/Even
Academic Core Course (ACC) - 6 credits			
	See the list on each interest curriculum below	6	Odd/Even
In-dept Course (IC) - 6 credits			
	see the list on each interest curriculum below	6	Odd/Even
Final Assignment (Dissertation) - 28 credits			
SVB1791	Research Proposal	2	Odd/Even
SVB1792	Written Qualification Exam	2	Odd/Even
SVB1793	Oral Qualification Exam	2	Odd/Even
SVB1794	Qolloquium	1	Odd/Even
PPS790	Seminar	1	Odd/Even
SVB1795	Dissertation	12	Odd/Even
PPS791	National Publication	2	Odd/Even
PPS792	International Publication	3	Odd/Even
SVB1796	Defence Exam of Dissertation	3	Odd/Even
SVB1797	Promotion Session of Dissertation	-	Odd/Even



1. Interest in Physiology and Pharmacology (IFO)

Code	Subject	Credits	Semester
Academic Core Course (ACC)			
SVB1711	<i>Medical Biotechnology</i>	2(2-0)	Odd/Even
SVB1712	<i>Special Topic 1</i>	2(2-0)	Odd/Even
SVB1713	<i>Special Topic 2</i>	2(2-0)	Odd/Even
In-dept Course (IC)			
Sub-interest: Anatomy, Histology and Embriology			
SVB1617	<i>Antioxidants and Cell Metabolism</i>	2(2-0)	Odd/Even
SVB1714	<i>Cellular Free Radicals and Degenerative Process</i>	3(2-1)	Odd/Even
SVB1715	<i>Stem Cells: Theory and Application</i>	2(2-0)	Odd/Even
Sub-Interest Pharmacology and Toxicology			
SVB1717	<i>Environmental Toxicology</i>	2(2-0)	Odd/Even
SVB1718	<i>Analytical Methods for Efficacy and Safety of Natural Compounds</i>	2(2-0)	Odd/Even
SVB1719	<i>Development of Conventional and Natural Compound as Drugs Candidate</i>	2(2-0)	Odd/Even
SVB1611	<i>Drug Delivery System</i>	2(2-0)	Odd/Even
SVB171A	<i>Molecular Pharmacology</i>	3(2-1)	Odd/Even
Sub-interest Physiology			
SVB1612	<i>Ecophysiology</i>	3(3-0)	Odd/Even
SVB1613	<i>Physiological Techniques and Instrumentation</i>	3(2-1)	Odd/Even
SVB1614	<i>Physiology of Animal Production</i>	3(3-0)	Odd/Even
SVB1615	<i>Avian Physiology</i>	3(2-1)	Odd/Even
SVB1616	<i>Anatomy and Physiology of Primate Animals</i>	3(2-1)	Odd/Even
SVB171B	<i>Moleculer Physiology</i>	2(2-0)	Odd/Even

2. Interest in Medical Parasitology and Entomology (PEK)

Code	Subject	Credits	Semester
Sub-interest Medical Entomology			
SVB1721	<i>Advance in Medical Entomology and Acarology</i>	3(2-1)	Odd/Even
SVB1722	<i>Vector and and its role in DiseasesTransmission</i>	3(3-0)	Odd/Even
SVB1723	<i>Pesticide of Medical Pests</i>	3(2-1)	Odd/Even
SVB1727	<i>Special Topic</i>	3	Odd/Even
Sub Interest Parasitology			
SVB1724	<i>Advance in Parasitology</i>	3(2-1)	Odd/Even
SVB1725	<i>Molecular Parasitology</i>	3(2-1)	Odd/Even
SVB1726	<i>Chemoteraphy of Parasitic Diseases</i>	3(2-1)	Odd/Even
SVB1727	<i>Special Topic</i>	3	Odd/Even



3. Interest in Veterinary Public Health (KMV)

Code	Subject	Credits	Semester
Academic Core Course (ACC)			
SVB1731	<i>Hygiene and Halalness of Animal Products</i>	2(2-0)	Odd/Even
SVB1732	<i>Design of Epidemiological Study</i>	2(1-1)	Odd/Even
SVB1733	<i>Special Topic</i>	2	Odd/Even
In-dept Course (IC)			
SVB1734	<i>Intoxication of Food of Animal Origin</i>	2(2-0)	Odd/Even
SVB1735	<i>Foodborne Zoonotic Diseases</i>	2(2-0)	Odd/Even
SVB1631	<i>Modern Diagnostic Techniques in Animal Product Safety</i>	2(2-0)	Odd/Even
SVB1632	<i>Economy and Policy in Animal Health</i>	2(1-1)	Odd/Even
SVB1633	<i>Management and Analysis of Epidemiological Data</i>	2(1-1)	Odd/Even
SVB1634	<i>Animal Welfare and Halalness of Animal Products</i>	2(2-0)	Odd/Even
SVB1635	<i>Import Risk Analysis for Animals and Animal Products</i>	3(2-1)	Odd/Even

4 Interest in Medical Microbiology (MKM)

Code	Subject	Credits	Semester
Academic Core Course (ACC)			
SVB1741	<i>Transmission and Control Strategies for Infectious Disease</i>	1(0-1)	Odd/Even
SVB1742	<i>Systems Microbiology</i>	3(2-1)	Odd/Even
SVB1743	<i>Systems Immunology</i>	2(1-1)	Odd/Even
In-dept Course (IC)			
SVB1744	<i>Special topic</i>	2	Odd/Even
SVB1641	<i>Vaccinology</i>	2(1-1)	Odd/Even
SVB1642	<i>Immunogenetics</i>	2(1-1)	Odd/Even
SVB1643	<i>Microbial Metagenomics</i>	2(1-1)	Odd/Even
SVB1644	<i>Medical Nanobiotechnology</i>	2(1-1)	Odd/Even
SVB1749	<i>Antimicrobial Resistance: Mechanisms and Strategy</i>	2(1-1)	Odd/Even
SVB174A	<i>Advanced Bacteriology</i>	2(1-1)	Odd/Even
SVB174B	<i>Advanced Virology</i>	2(1-1)	Odd/Even
SVB174C	<i>Advanced Micology</i>	2(1-1)	Odd/Even



5. Interest in Reproductive Biology (BRP)

Code	Subject	Credits	Semester
Academic Core Course (ACC)			
SVB1751	<i>Advance in Physiology and Reproductive Endocrinology</i>	3(2-1)	Odd/Even
SVB1752	<i>Current Development in Reproduction</i>	2(2-0)	Odd/Even
SVB1753	<i>Ethology and Comparative Reproduction</i>	2(2-0)	Odd/Even
In-dept Course (IC)			
SVB1754	<i>Special Topic</i>	3	Odd/Even
SVB1755	<i>Perinatal and senilitas management</i>	3(2-1)	Odd/Even
SVB1756	<i>Assisted Reproductive Technology</i>	3(2-1)	Odd/Even

6. Interest in Animal Biomedical Science (IBH)

Code	Subject	Credits	Semester
In-dept Course (IC)			
Sub-Interest in Veterinary Internal Medicine			
SVB1761	<i>Elective courses and / Special Topic</i>	Max 5	
SVB1762	<i>Clinical Endocrinology</i>	2(1-1)	Odd/Even
SVB1763	<i>Veterinary Medical Hematology</i>	2(1-1)	Odd/Even
SVB1764	<i>Special Topic in Veterinary Clinical Pathology</i>	3(2-1)	Odd/Even
Sub-Interest in Veterinary Surgery			
SVB1761	<i>Elective courses and / Special Topic</i>	Max 5	
SVB1765	<i>Advanced Surgery</i>	2(1-1)	Odd/Even
SVB1766	<i>Comparative Surgery</i>	2(2-0)	Odd/Even
SVB1767	<i>Veterinary Emergency Care Medicine</i>	3(2-1)	Odd/Even
Sub-interst in Veterinary Pathology			
SVB1761	<i>Elective courses and / Special Topic</i>	Max 5	
SVB1768	<i>Toxicopathology</i>	2(1-1)	Odd/Even
SVB1769	<i>Cellular Pathology</i>	2(1-1)	Odd/Even
SVB176A	<i>Molecular Tumor Pathology</i>	3(2-1)	Odd/Even
SVB176E	<i>Veterinary Forensic Pathology</i>	3(2-1)	Even
SVB176F	<i>Comparative Pathology</i>	3(2-1)	Even
Sub-interest in Veterinary Pharmacy			
SVB1761	<i>Elective courses and / Special Topic</i>	Max 5	
SVB176B	<i>Veterinary Phytotherapy</i>	3(2-1)	Odd/Even
SVB176C	<i>Nanotechnology in Veterinary Medicine</i>	2(1-1)	Odd/Even
SVB176D	<i>Veterinary Clinical Pharmacy</i>	2(2-0)	Odd/Even



CURRICULUM OF DOCTORAL PROGRAM
BY RESEARCH
STUDY PROGRAM OF ANIMAL BIOMEDICAL SCIENCE
(WITH INTERESTS)

No.	Code	Subject	Credit	Semester
Common Course (CC) – 2 credits				
1.	PPS 702	<i>Philosophy of Science</i>	2(2-0)	Odd
Foundational Course (FC) - 2 credits				
2.	SVB1701	One Health	2(2-0)	Odd/Even
Academic Core Course (ACC) - 4 credits				
3.	SVB1702	Special Topic of Interest I	2	Odd/Even
4.	SVB1703	Special Topic of Interest II	2	Odd/Even
In-dept Course (IC) - 6 credits				
5.	SVB1798	Special Topic for Research I	2 - 3	Odd/Even
6.	SVB 1799	Special Topic for Research II	2 - 3	Odd/Even
7.	SVB xxxx	Special Topic for Research III	2 - 3	Odd/Even
Final Assignment (Dissertation) - 31 credits				
8.	SVB1791	Research Proposal	2	Odd/Even
9.	SVB1792	Written Qualification Exam	2	Odd/Even
10.	SVB1793	Oral Qualification Exam	2	Odd/Even
11.	SVB1794	Qolloquium	1	Odd/Even
12.	PPS790	Seminar	1	Odd/Even
13.	SVB1795	Dissertation	12	Odd/Even
14.	PPS791	National Publication	2	Odd/Even
15.	PPS792	International Publication I	3	Odd/Even
16.	PPS xxx	International Publication II	3	Odd/Even
17.	SVB1796	Defence Exam of Dissertation	3	Odd/Even
18.	SVB1797	Promotion Session of Dissertation	-	Odd/Even
TOTAL			45	

