

Graduate Diploma Program in Veterinary in Livestock Diseases and Health Management
International Program
(New curriculum 2009)

1. Title of curriculum

Graduate Diploma Program in Veterinary in Livestock Diseases and Health
Management

2. Name of degree

Graduate Diploma in Veterinary (Livestock Diseases and Health Management)
Grad. Dip. Vet.(Livestock Diseases and Health Management)

3. Responsible organization

Department of Veterinary Medicine, Faculty of Veterinary Medicine and Graduate School,
Khon Kaen University

4. Background and justification, philosophy and main objectives of the curriculum

4.1 Background and justification

Herd health management is important for livestock production. New knowledge and technologies especially on health management in farm animal is improving to achieve production efficiency. Therefore, veterinarians and veterinary officers in Thailand and Mekhong-region countries should develop their knowledge and skill in order to keep up with the technology always. The Faculty of Veterinary Medicine, Khon Kaen University, realizes the importance of offering the Graduate Diploma Program in Veterinary in Livestock Diseases and Health Management to provide the needs for furthering education for veterinarians and veterinary officers in livestock health management

4.2 Philosophy

The Graduate Diploma Program in Veterinary in Livestock Diseases and Health Management aims at producing veterinarians and veterinary officers that have updated knowledge and experience in health management in order to increased production efficiency according to ethics and professional morality.

4.3 Objective of the curriculum

The Graduate Diploma Program in Veterinary in Livestock Diseases and Health Management is designed to produce veterinarians and veterinary officers who are

1. Knowledgeable and able to perform diagnostic examination as well as treatment, control and prevention of disease in livestock farms
2. Skillful for health management in livestock farms in order to increase production efficiency
3. Realizing ethics and professional morality

4.4 Prominent point or strength of program

The Faculty of Veterinary Medicine is located in the Northeastern of Thailand. This region has the highest number of livestock animals and farmers in the country. The Faculty also has a teaching hospital that is well-known regionally for livestock health service, which can be provided at the hospital and on-farms.

5. Effective date of the program

The program will be offered from the first semester of the academic year 2010 onwards.

6. Qualification of the Applicants

6.1 Applicants must hold a bachelor's degree in Veterinary Medicine.

6.2 All applicants must pass English language tests such as TOEFL with 500 marks or better, or IELTS with 5.5 marks or better, or other English language test institution with equivalent standards depends upon the consent of the curriculum administrative committee.

6.3 Qualification of the Applicants must comply with the regulations of Khon Kaen University on Graduate Degree Program, 2005, Section 5, Items 26.1 (detail in Appendix 4) or any revision thereafter.

7. Admission Requirements

Comply with the regulations of Khon Kaen University on Graduate Degree Program, 2005, Section 5, Items 27 and 28 (detail in Appendix 4) or any revision thereafter.

8. Education System

Comply with the Regulations of Khon kaen University on Graduate Degree Program, 2005, Section 2, all items and Section 3, Item 11.1 and 12.1 (detail in Appendix 4) or any revision thereafter.

9. Program Duration

The program duration should not exceed 3 academic years, which is complied with the Regulations of Khon Kaen University on Graduate Degree Program, 2005, Section 3, Item 14.1 (detail in Appendix 4) or any revision thereafter.

10. Enrollment

Comply with the Regulations of Khon Kaen University on Graduate Degree Programs, 2005, Section 6 (detail in Appendix 4) or any revision thereafter.

11. Evaluation and Graduation

Comply with the Regulations of Khon Kaen University on Graduate degree Programs, 2005, Section 7, Items 36.1 38, 39, 40, 41, 42 and 43 as well as Section 9, Items 54.1, 56 and 58 (detail in Appendix 4) or any revision thereafter.

12. Lecturers

12.1 Lecture Responsible for Program

No.	First Name – Last Name	Qualification	Academic Position	Institution
1	Ms.Kanlaya Chuachan	D.V.M., M.Sc. (Avian Medicine)	Associate Professor	Department of Medicine
2	Mr. Jatesada Jiwakanon	D.V.M.(Honors), M.Sc., Ph.D. (Veterinarmedicine Doktorsexamen Amnet Obstetrik och Gynekologi)	Assistant Professor	Department of Medicine
3	Mr.Piyawat Saipan	D.V.M., M.Sc., Ph.D. (Veterinary Public Health)	Lecturer	Department of Veterinary Public Health

12.2 Lecture of Program

No.	First Name – Last Name	Qualification	Academic Position	Institution
1	Ms.Kanlaya Chuachan	D.V.M., M.Sc. (Avian Medicine)	Associate Professor	Department of Medicine
2	Mr. Jatesada Jiwakanon	D.V.M.(Honors), M.Sc., Ph.D. (Veterinarmedicine Doktorsexamen Amnet Obstetrik och Gynekologi)	Assistant Professor	Department of Medicine

No.	First Name – Last Name	Qualification	Academic Position	Institution
3	Mr.Sarawuth Sringam	D.V.M., M.Sc. (Anatomy)	Assistant Professor	Department of Surgery and Theriogenology
4	Mr.Ekachai Patarapanwichian	D.V.M.	Assistant Professor	Department of Pathobiology
5	Mr.Piyawat Saipan	D.V.M., M.Sc., Ph.D. (Veterinary Public Health)	Lecturer	Department of Veterinary Public Health

12.3 Teaching Staff

12.3.1 Regular teaching staff

No.	First Name – Last Name	Qualification	Academic Position	Institution
1	Ms.Kanlaya Chuachan	D.V.M., M.Sc. (Avian Medicine)	Associate Professor	Department of Medicine
2	Mr.Komkrich Pimpukdee	D.V.M.(Honors), Ph.D.(Veterinary Toxicology)	Associate Professor	Department of Veterinary Public Health
3	Mr.Bundit Tengjaroenkul	D.V.M., Ph.D.(Veterinary Medicine)	Associate Professor	Department of Medicine
4	Mr.Prasarn Tangkawattana	D.V.M.(Honors), Ph.D. (Bioscience)	Associate Professor	Department of Anatomy
5	Mr.Preenun Jitasombuti	D.V.M., M.Sc.(Veterinary Surgery)	Associate Professor	Department of Surgery and Theriogenology
6	Mr.Mongkol Prongcharoen	D.V.M., F.R.V.C.S.	Associate Professor	Department of Surgery and Theriogenology
7	Mr.Somboon Saengmaneedet	D.V.M.(Honors), M.S., Ph.D. (Veterinary Parasitology)	Associate Professor	Department of Pathobiology
8	Ms.Suneerat Aiumlamai	D.V.M.(Honors), M.Sc., Ph.D. (Veterinarmedicine Doktorsexamen Amnet Obstetrik och Gynekologi)	Associate Professor	Department of Surgery and Theriogenology
9	Mr.Sutthisak Nopwinyoowong	D.V.M., M.Sc. (Veterinary Pathology)	Associate Professor	Department of Pathobiology

No.	First Name – Last Name	Qualification	Academic Position	Institution
10	Ms.Arinee Chatchawanchonteera	D.V.M.	Associate Professor	Department of Pathobiology
11	Mr.Korawuth Punareewattana	D.V.M., M.S., Ph.D. (Veterinary Pharmacology)	Assistant Professor	Department of Pharmacology and Toxicology
No.	First Name – Last Name	Qualification	Academic Position	Institution
12	Ms.Kwankate Kanisthanon	D.V.M.(Honors), M.S., Ph.D.(Veterinary Epidemiology)	Assistant Professor	Department of Physiology
13	Mr.Kanit Chukanhom	D.V.M., Ph.D. (Aquatic Medicine)	Assistant Professor	Department of Medicine
14	Jatesada Jiwakanon	D.V.M.(Honors), M.Sc., Ph.D. (Veterinarmedicine Doktorsexamen Amnet Obstetrik och Gynekologi)	Assistant Professor	Department of Medicine
15	Mr.Chaiwat Jarassaeng	D.V.M., M.Sc. (Theriogenology)	Assistant Professor	Department of Surgery and Theriogenology
16	Ms.Duangdaun Kaenkangploo	D.V.M., M.Sc. (Veterinary Surgery)	Assistant Professor	Department of Surgery and Theriogenology
17	Mr.Narison Na-gnam	D.V.M., M.Sc., Ph.D. (Tropical Medicine)	Assistant Professor	Department of Veterinary Public Health
18	Mr.Prapansak Chaveerach	D.V.M., Ph.D.(Veterinary Public Health)	Assistant Professor	Department of Veterinary Public Health
19	Ms.Prapaporn Tungthanathanit	B. Sc., D.V.M.(Honors), M.Sc., Ph.D.(Physiology)	Assistant Professor	Department of Physiology
20	Mr.Prawit Butudom	D.V.M.(Honors), M.S., Ph.D.(Equine Medicine)	Assistant Professor	Department of Medicine
21	Mr.Pongthorn Suwannathada	D.V.M.	Assistant Professor	Department of Surgery and Theriogenology
22	Ms.Pimchanok Suwannathada	D.V.M.	Assistant Professor	Department of Medicine

No.	First Name – Last Name	Qualification	Academic Position	Institution
23	Mr.Pisit Suwannachot	D.V.M., Ph.D.(Physiology)	Assistant Professor	Department of Physiology
24	Mr.Peerapol Suk-on	D.V.M., Ph.D.(comparative Veterinary Medicine)	Assistant Professor	Department of Anatomy
25	Ms. Fanan Suksawat	D.V.M.(Honors), M.S., Ph.D. (Comparative Biomedical Sciences)	Assistant Professor	Department of Medicine
26	Mr.Sarawut Sringam	D.V.M., M.Sc.(Anatomy)	Assistant Professor	Department of Surgery and Theriogenology
27	Mr.Sunpetch Angkititrakul	D.V.M., M.Sc., Ph.D. (Public Health)	Assistant Professor	Department of Veterinary Public Health
28	Mr.Sarthorn Porntrakulpipat	D.V.M., Dr. med.vet.(Swine Disease)	Assistant Professor	Department of Medicine
29	Ms.Sirikachorn Tangkawattana	D.V.M., M.Sc., Ph.D. (Pathobiology)	Assistant Professor	Department of Pathobiology
30	Mr.Suchat Wattanachai	D.V.M., M.A. (Education)	Assistant Professor	Department of Surgery and Theriogenology
31	Mr.Anantachai Chaiyotwittayakun	D.V.M.(Honors), M.Sc., Ph.D.(Bovine Clinical Immunobiology)	Assistant Professor	Department of Medicine
32	Mr.Ekachai Patarapanwichian	D.V.M.	Assistant Professor	Department of Pathobiology
33	Ms.Jaruwan Kampa	D.V.M.(Honors), M.Sc., Ph.D. (Ruminant Medicine)	Lecturer	Department of Pathobiology
34	Mr.Naruepon Kampa	D.V.M., M.Sc., Ph.D. (Veterinary Radiology)	Lecturer	Department of Surgery and Theriogenology
35	Mr.Piyawat Saipan	D.V.M., M.Sc., Ph.D. (Veterinary Public Health)	Lecturer	Department of Veterinary Public Health

No.	First Name – Last Name	Qualification	Academic Position	Institution
36	Mr.Saksiri Siristien	D.V.M., Ph.D. (Reproductive Physiology)	Lecturer	Department of Surgery and Theriogenology
37	Mr.Aran Chanlun	D.V.M., M.Sc., Ph.D. (Ruminant Medicine)	Lecturer	Department of Medicine

13. Student Population

The minimum number of students admitted to the program in each academic year and the expected number of graduates are shown in the table below.

Total Number of Students (Including All Admission Types)

Batch of Students	Academic Year				
	2010	2011	2012	2013	2014
Newly Admitted Students	5	5	5	5	5
Total Number of Students	5	5	5	5	5
Expected Number of Graduates	5	5	5	5	5

14. Facilities and Teaching Equipments

Facilities and teaching equipments for the program are located in all Departments of the Faculty of Veterinary Medicine, in Research and Farm Station in Wang Saphung District, Loei Province and in animal farms of a private sector.

14.1 Rooms, Locations, Capacities, and Purposes of Use

Rooms	Locations	Capacities (Meter ²)	Purposes of Use
1. Office of the Program	Building 3 (5 th floor)	40	- Program administration
2. Conference room	Building 3 (6 th floor)	80	- Committee meeting - Storing of documents and journals
3. Recreation room	Building 3 (6 th floor)	20	- Guest reception - Relaxing activity
4. Storeroom	Building 3 (6 th floor)	33	- Material storage
5. Room for teaching small	Building 3 (6 th floor)	65	- Teaching small classes

classes			-
6. Cow Barn	Building 3 (1 st floor)	63	Laboratory for artificial insemination
7. Dog housing	Building for animal housing	80	- Dog housing
8. Veterinary Teaching Hospital	- 1 st floor	96	- Swine keeping
- Swine pen	- 1 st floor	96	- Chicken keeping
- Chicken pen	- 1 st floor	96	- Dog keeping
- Dog pen	- 1 st floor	96	- Cat keeping
- Cat pen	- 1 st floor	24	- Administrative area
- Administrative area	- 1 st floor	16	- Drug preparation
- Room for drug preparation	- 1 st floor	16	- Veterinary patient's record
- Room for veterinary patient's record	- 1 st floor	12	- Clinical examination and treatment
- Room 1 for clinical examination and treatment	- 1 st floor	12	- Clinical examination and treatment
- Room 2 for clinical examination and treatment	- 1 st floor	10	- Clinical examination and treatment
- Room 3 for clinical examination and treatment	- 1 st floor	10	- Clinical examination and treatment
- Room 4 for clinical examination and treatment	- 1 st floor	12	- Clinical examination and treatment
- Room 5 for clinical examination and treatment	- 1 st floor	10	- Eye and skin inspection
- Room for eye and skin inspection	- 1 st floor	28	- Circulating academic journals
- Room for circulating academic journals	- 1 st floor	28	- Veterinarian room
- Veterinarian room	- 1 st floor	20	- Computer room
- Computer room	- 1 st floor	25	- Instructor room
- Instructor room	- 1 st floor	16	- Pharmacy room
- Pharmacy room	- 1 st floor	40	- Film storage and student room
- Film storage and student room	- 1 st floor	20	- Surgical treatment
		20	- Animal preparation
		20	- Room for animal feed

- Room for surgical treatment	- 1 st floor	96	- Large animal inspection
- Room for animal preparation	- 1 st floor	144	- Large animal surgery
- Room for animal feed	- 1 st floor	192	- Animal hotel
- Room for large animal inspection	- 2 nd floor	16	- Room for instructors and staffs
- Room for large animal surgery	- 2 nd floor	140	- Storeroom
- Animal hotel	- 2 nd floor	168	- Room for surgical study
- 5 Rooms for instructors and staffs	Wang Saphung District, Loei Province	2,000 rai	- Research and farm station
- Storeroom	Building 1 (1 st floor)	40	- Storeroom
- Room for surgical study	Building 1 (1 st floor)	40	- Room for student activity
9. Research and farm station	Building 1 (1 st floor)	80	- Computer room
10. Storeroom	Building 1 (1 st floor)	456	- Library
11. Room for student activity	Building 1 (1 st floor)	240	- Laboratory of the Department of Anatomy
12. Computer room	Building 1 (1 st floor)	8	- Storeroom
13. Library	Building 1 (2 nd floor)	160	- Veterinary museum
14. Laboratory of the Department of Anatomy	Building 1 (2 nd floor)	80	- Lecture room 3
15. Storeroom	Building 1 (2 nd floor)	90	- Lecture room 4
16. Veterinary museum	Building 1 (2 nd floor)	80	- Lecture room 5
17. Lecture room 3	Building 1 (2 nd floor)	80	- Lecture room 6
18. Lecture room 4	Building 1 (2 nd floor)	364	- Lecture room for 200 seats
19. Lecture room 5	Building 1 (2 nd floor)	160	- Laboratory of the Department of Pharmacology and Toxicology
20. Lecture room 6	Building 1 (2 nd floor)	160	- Room for laboratory preparation of the Department of Pharmacology and Toxicology
			- Central laboratory

21. Lecture room for 200 seats	Building 1 (3 rd floor)	160	- Office of Department of Physiology
22. Laboratory of the Department of Pharmacology and Toxicology	Building 1 (3 rd floor)	120	- Office of the Department of Pharmacology and Toxicology
23. Room for laboratory preparation of the Department of Pharmacology and Toxicology	Building 1 (3 rd floor)	120	- Laboratory of the Department of Anatomy
24. Central laboratory	Building 1 (3 rd floor)	120	- Room for laboratory preparation of the Department of Physiology
25. Office of Department of Physiology	Building 1 (3 rd floor)	56	- Laboratory of the Department of Physiology
26. Office of the Department of Pharmacology and Toxicology	Building 1 (4 th floor)	160	- Room for storing of field equipments
27. Laboratory of the Department of Anatomy	Building 1 (4 th floor)	160	- Office of the Department of Anatomy
28. Room for laboratory preparation of the Department of Physiology	Building 1 (4 th floor)	224	- Office of the Department of Veterinary Public Health
29. Laboratory of the Department of Physiology	Building 1 (4 th floor)	112	- Instructor room
30. 2 Rooms for storing of field equipments	Building 1 (4 th floor)	120	- Laboratories of the Department of Veterinary Public Health
31. Office of the Department of Anatomy	Building 1 (4 th floor)	120	- Rooms for laboratory preparation of the Department of Veterinary Public Health
32. Office of the Department of Veterinary Public Health	Building 3 (1 st floor)	805	- Auditorium
33. Instructor room	Building 3 (1 st floor)	60	- Lecture room

34. 2 Laboratories of the Department of Veterinary Public Health	Building 3 (1 st floor)	180	- Room for necropsy preparation
35. 3 Rooms for laboratory preparation of the Department of Veterinary Public Health	Building 3 (1 st floor)	72	- Lecturer room
36. Auditorium for 500 seats	Building 3 (1 st floor)	160	- Room for large animal surgery
37. Lecture room for 60 seats	Building 3 (1 st floor)	320	
38. Lecture room for 180 seats	Building 3 (1 st floor)	160	- Room for large animal surgery
39. Room for necropsy preparation	Building 3 (1 st floor)	30	- Room for surgical study
40. Instructor room	Building 3 (1 st floor)	50	- Necropsy room
41. Room for large animal surgery	Building 3 (2 nd floor)	20	- Study/Meeting room
42. Room for large animal surgery	Building 3 (2 nd floor)	130	- Lecture room for 100 seats
43. Room for surgical study	Building 3 (2 nd floor)	20	- Instructor room
44. Necropsy room	Building 3 (2 nd floor)	65	- Instructor room
45. Study/Meeting room	Building 3 (2 nd floor)	20	- Instructor room
46. 2 Lecture rooms for 100 seats	Building 3 (2 nd floor)	80	- Laundry and cleaning room
47. 2 Instructor rooms	Building 3 (2 nd floor)	80	- Room for laboratory preparation of obstetrics
48. Instructor room	Building 3 (2 nd floor)	160	- Laboratory for obstetrics
49. 3 Instructor rooms	Building 3 (2 nd floor)	160	- Laboratory for gynecology
50. Laundry and cleaning room	Building 3 (2 nd floor)	80	- Room for laboratory preparation of gynecology
51. Room for laboratory preparation of obstetrics	Building 3 (2 nd floor)	80	- Instructor room
52. Laboratory for obstetrics	Building 3 (2 nd floor)	80	- Office of the Department of Surgery and Theriogenology
53. Laboratory for	Building 3 (2 nd floor)	20	- Instructor room

gynecology			
54. Room for laboratory preparation of gynecology	Building 3 (3 rd floor)	130	- Office of the Department of Pathobiology
55. Instructor room	Building 3 (3 rd floor)	16.25	- Instructor room
56. Office of the Department of Surgery and Theriogenology	Building 3 (3 rd floor)	130	- Instructor room
57. 4 Instructor rooms	Building 3 (3 rd floor)	16.25	- Instructor room
58. Office of the Department of Pathobiology	Building 3 (3 rd floor)	16.25	- Lecture room for clinical practice
59. 4 Instructor rooms	Building 3 (3 rd floor)	30	- Lecture room for clinical practice
60. Lecture room for 100 seats	Building 3 (3 rd floor)	35	- Staff room
61. 2 Instructor rooms	Building 3 (3 rd floor)	20	- Instructor room
62. Lecture room for clinical practice	Building 3 (3 rd floor)	16.25	- Instructor room
63. Lecture room for clinical practice	Building 3 (3 rd floor)	40	- Room for mycology
64. Staff room	Building 3 (3 rd floor)	40	- Room for bacteriology
65. 3 Instructor rooms	Building 3 (3 rd floor)	40	- Room for instrumental cleaning
66. 2 Instructor rooms	Building 3 (3 rd floor)	40	- Room for chemical preparation and storage
67. Room for mycology	Building 3 (3 rd floor)	40	- Laboratory for immunology
68. Room for bacteriology	Building 3 (3 rd floor)	40	- Laboratory for virology
69. Room for instrumental cleaning	Building 3 (3 rd floor)	80	- Laboratory for molecular biology
70. Room for chemical preparation and storage	Building 3 (3 rd floor)	200	- Room for laboratory study
	Building 3 (3 rd floor)	60	- Room for reparation/ laboratory of parasitology
71. Laboratory for immunology	Building 3 (3 rd floor)	60	- Study room for clinical practice
72. Laboratory for virology	Building 3 (3 rd floor)	80	- Room for laboratory preparation of pathology
73. Laboratory for molecular	Building 3 (3 rd floor)	16.25	- Instructor rooms

biology			
74. Room for laboratory study	Building 3 (4 th floor)	130	- Lecture room for 100 seats
75. Room for preparation/ laboratory of parasitology	Building 3 (4 th floor)	16.25	- Instructor rooms
76. Study room for clinical practice	Building 3 (4 th floor)	130	- Instructor rooms
77. Room for laboratory preparation of pathology	Building 3 (4 th floor)	15	- Instructor rooms
78. 4 Instructor rooms	Building 3 (4 th floor)	30	- Lecture room
79. Lecture room for 100 seats	Building 3 (4 th floor)	50	- Meeting room for the Departments
80. 4 Instructor rooms	Building 3 (4 th floor)	16.67	- Instructor rooms
81. Instructor room	Building 3 (4 th floor)	80	- Instructor rooms
82. 3 Instructor rooms	Building 3 (4 th floor)	80	- Room for research operation
83. Lecture room 2	Building 3 (4 th floor)	160	- Room for laboratory preparation of aquatic animal
84. Meeting room for the Departments	Building 3 (4 th floor)	160	- Laboratory for aquatic animals
85. 3 Instructor rooms	Building 3 (4 th floor)	160	- Necropsy room
86. Instructor room	Building 3 (4 th floor)	80	- Room for laboratory preparation of avian animals
87. Room for research operation	Building 3 (4 th floor)	60	- Lecture room
88. Room for laboratory preparation of aquatic animals	Building 3 (4 th floor)	130	- Office of the Department of Medicine
89. Laboratory for aquatic animals	Building 3 (4 th floor)	20	- Instructor rooms
90. Necropsy room	Building 3 (5 th floor)	130	- Room for supporting and development
91. Room for laboratory preparation of avian animals	Building 3 (5 th floor)	90	- Storeroom
92. Lecture room	Building 3 (5 th floor)	130	- Storeroom
93. Office of the Department of Medicine	Building 3 (5 th floor)	25	- Counseling service / small group discussion

94. 4 Instructor rooms	Building 3 (5 th floor)	50	- Room for ware-affair unit
95. Room for supporting and development	Building 3 (5 th floor)	60	- Room for student-affair service
96. Storeroom	Building 3 (5 th floor)	80	- Room for copying service
97. Storeroom	Building 3 (5 th floor)	40	- Room for media service
98. Room for counseling service	Building 3 (5 th floor)	120	- Computer room
99. Room for ware-affair unit	Building 3 (5 th floor)	160	- Meeting room 1
100. Room for student-affair service	Building 3 (5 th floor)	160	- Office for administrators
101. Room for copying service	Building 3 (5 th floor)	160	- Office of dean -
102. Room for media service	Building 3 (5 th floor)	40	Room for administrative service
103. Computer room	Building 3 (5 th floor)	65	- Room for finance and ware-affair services
104. Meeting room 1	Building 3 (6 th floor)	130	- Multi-purpose room
105. Office for administrators	Building 3 (6 th floor)	25	- Seminar room
106. Office of dean	Building 3 (6 th floor)	15	- Seminar room
107. Room for administrative service	Building 3 (6 th floor)	25	- Seminar room
108. Room for finance and ware-affair services	Building 3 (6 th floor)	130	- Multi-purpose room
	Building 3 (6 th floor)	25	- Seminar room
109. Multi-purpose room	Building 3 (6 th floor)	50	- Seminar room
110. Seminar room	Building 3 (6 th floor)	60	- Multi-purpose room
111. Seminar room	Building 3 (6 th floor)	40	- Instructor room
112. Seminar room	Building 3 (6 th floor)	50	- Seminar room
113. Multi-purpose room			
114. Seminar room			
115. Seminar room			
116. Multi-purpose room			
117. 19 Instructor rooms			
118. Seminar room			

14.2 Teaching Equipments

14.2.1 Available equipments

1. Full set of microcomputer	60
2. Slide projector	6
3. Overhead projector	6
4. Audio projector	6
5. LCD projector	9
6. Digital camera	5

14.2.2 Laboratory and research equipments

1. Microscope (double eye pieces)	150
2 Microscope with camera	4
3. Tissue preparation	1
4. Animal organ model set	2
5. Arthroscopic surgery	2
6. Surgery	20
7. Field X-ray	1
8. Artificial insemination	10
9. Cardiometer	2
10. Electrophoresis	3
11. Gas Liquid Chromatography	1
12. High Performance Liquid Chromatography	1
13. Liquid Scintillation Counter	1
14. Large animal surgery	2
15. Trocar canula	5
16. Refrigerated centrifuge	1
17. Ultrasonic cell breaker	1
18. Milk pasteurization	1
19. Somatic cell counter	1
20. Milkoscan	1
21. Scaler	1
22. Molecular analysis	1

14.2.3 Requested Equipment

None

15. Library

15.1 Khon Kaen University Library have information resources especially involving Veterinary which are:

15.1.1 Library and Resource Center

1. Books

Thai Language	862 issues
Foreign Language	1,042 issues

2. Journals

Thai Language	17 issues
Foreign Language	11 issues

3. Audio-Visual Materials 2 issues

4. Electronic Learning -

5. Database

Electronic Databases

- Academic Search Premier
- CHE PDF Dissertation Full Text
- ISI Web of Science [Uni Net]
- Dissertation Abstracts Online
- CSA: Biological Science Database Online
- SciFinder
- Wilson Omni File: Full Text Select
- PubMed

Electronic Books

- Knovel online
- Net library E-books
- Springer Link E-books

Electronic Journals

- Dissertation Abstracts [and ProQuest Digital Dissertations]
- Digital Dissertation and Theses
- CINAHL with Full Text
- ProQuest Agriculture Journals
- Blackwell Journals Online

- Wilson OmniFile: Full Text Select
- Annual Reviews
- Nature Online
- Clinical infectious diseases Years 2004
- LINK (Springer)
- Cambridge Journals Online
- H.W.Wilson [Uni-Net]
- Science Direct [UniNet]
- Wilson OmniFile: Full Text Select
- Journals@Ovid
- SciFinder

Electronic Thesis

- Dissertation Database/Independent Study/Research/only journals belong to Khon Kaen University
- Dissertation Database /Independent Study /Thailand University
- Thai Distertation Database (Online TIAC)
- Dissertation Abstract Database/ Independent Research of Khon Kaen University

CD Rom Database 5 issues

- Agricola
- CAB Abstracts
- Life Science
- Dissertation Abstracts On disc
- Medline

15.1.2 Veterinary Medicine's Library

1. Books

Thai Language	7,821 issues
Foreign Language	3,442 issues

2. Journals

Thai Language	8 issues
Foreign Language	6 issues
Donation	161 issues

3. Database

Electronic Databases 5 issues

- ACM Digital Library
- H.W.Wilson
- ISI Web of Science
- PUBMED
- SciFinder

Electronic Books 3 issues

- Kluwer Online
- Netlibrary
- Grolier Online

Electronic Journals 8 issues

- ACS Publications
- Blackwell Journals Online
- H.W.Wilson
- Journals@Ovid
- LINK (Springer)
- ProQuest Medical Library
- Science Direct
- Wilson OmniFile

Electronic Thesis 4 issues

- Dissertation Fulltext
- Digital Dissertation
- Thai Dissertation Online
- Full Text Dissertation

CD Rom Database 6 issues

- Agricola & CAB Abstract
- Science Citation Index
- Life Science
- Dissertation Abstracts On disc[DAO]
- Medline

Thai Dissertation Database

4. Etc

VDO 26 titles	37 issues
CD 86 titles	181 issues

15.2 Faculty of Veterinary Medicine Library have information resources especially involving Animal Science which are:

1 Books

Thai Language	381 issues
Foreign Language	669 issues

2 Journals

Thai Language	18 issues
Foreign Language	10 issues

3 Electronic Learning

1 issues

4 Database

Electronic Database

- Academic Search Premier
- CHE PDF Dissertation Full Text
- ISI Web of Science [Uni Net]
- Dissertation Abstracts Online
- CSA: Biological Science Database Online
- SciFinder
- Wilson Omni File: Full Text Select
- PubMed

Electronic books

- Kluwer Online
- Netlibrary
- Grolier Online

Electronic Journals

- Dissertation Abstracts [and ProQuest Digital Dissertations]
- Digital Dissertation and Theses
- CINAHL with Full Text
- ProQuest Agriculture Journals
- Blackwell Journals Online
- Wilson OmniFile: Full Text Select

- Annual Reviews
- Nature Online
- Clinical infectious diseases year 2004
- LINK (Springer)
- Cambridge Journals Online
- H.W.Wilson [Uni-Net]
- Science Direct [UniNet]
- Wilson OmniFile: Full Text Select
- Journals@Ovid
- SciFinder

Electronic Thesis

- Dissertation Database/Independent Study/Research/only journals belong to Khon Kaen University
- Dissertation Database /Independent Study /Thailand University
- Thai Distertation Database (Online TIAC)
- Dissertation Abstract Database/ Independent Research of Khon Kaen University

CD Rom Database 5 issues

- Agricola & CAB Abstract
- Science Citation Index
- Life Science
- Dissertation Abstracts On disc[DAO]
- Medline

Thai Dissertation Database

Searching of information resources of Khon Kaen University Library could be performed through OPAC-Online Public Access Catalog

16. Budget

Estimated budget for the first 5 years program (2010-2014) are as follows:

1. Estimation income

List	Fiscal Year				
	2010	2011	2012	2013	2014
1. Annual government budget					
- Arrange cost	-	-	-	-	-
- etc.	-	-	-	-	-
2. Annual budget income					
- Tuition fee	400,000	400,000	400,000	400,000	400,000
- etc.	-	-	-	-	-
Total (Bht/yr)	400,000	400,000	400,000	400,000	400,000

2. Estimation expenses

List	Fiscal Year				
	2010	2011	2012	2013	2014
Wages and Operation Cost					
- Wages for invited instructors (Bht/yr)	100,000	100,000	100,000	100,000	100,000
- Utilities (Bht/yr)	50,000	50,000	50,000	50,000	50,000
- Materials (Bht/yr)	200,000	200,000	200,000	200,000	200,000
Total (Bht/yr)	350,000	350,000	350,000	350,000	350,000

1. Estimated cost per student throughout the program is approximately 70,000 Bht/person/program.
2. Estimated cost per student is 70,000 Bht/person/year

17.4 Descriptions of Course Codes

710 xxx	Central
714 xxx	Department of Pathobiology
715 xxx	Department of Surgery and Theriogenology
717 xxx	Department of Medicine
The fourth digit	7 to 9 are for the graduate level
The fifth digit	The field of study
The sixth digit	The order of the course in each field of study

17.5 Class Schedules

Year 1 Semester 1

Code	Subject	Credit
**710 891	Seminar in Veterinary I	1(1-0-2)
*715 722	Clinical Practice in Artificial Insemination and Reproductive Technology	1(0-2-1)
*717 731	Health Problems and Management in Ruminant	3(3-0-6)
*717 734	Clinical Ruminant Nutrition	2(2-0-4)
*717 735	Practice in Poultry Disease Diagnosis	2(0-4- 2)
*717 736	Clinical Swine Nutrition	2(0-4-2)
*717 737	Health and Production Management in Swine Heard	1(1-0- 2)
Number of credits this semester		12
Cumulative number of credits		12

Year 1 Semester 2

Code	Subject	Credit
**710 892	Seminar in Veterinary II	1(1-0-2)
*715 721	Business and Administration for Animal Farm	2 (2-0-4)
*717 732	Milk Quality and Production Management	2(2-0-4)
*717 733	Ruminant Clinical Practice	3(0-6-3)
*717 738	Practice in Health and Production Management in Swine Herd	2(0-4-2)
*714 731	Practice in Swine Disease Diagnosis	2(0-4-2)
Number of credits this semester		12
Cumulative number of credits		24

17.6 Course Description

- **710 891 Seminar in Veterinary I** 1(1-0-2)
 Prerequisite : none
 Literature review and discussion in veterinary and related medical sciences and case report.
- **710 892 Seminar in Veterinary II** 1(1-0-2)
 Prerequisite : none
 Review and discussion of literature and case report related to current issues in modern veterinary technology.
- *714 731 Practice in Swine Disease Diagnosis** 2(0-4-2)
 Prerequisite : none
 Technique in sample collection for swine disease diagnosis, postmortem examination, laboratory examination for swine disease, histopathology, bacteriology, virology, serology and molecular biology, discussion of case diagnosis.
- *715 721 Business and Administration for Animal Farm** 2 (2-0-4)
 Prerequisite : none
 Accounting and financing for livestock, strategic management, marketing management, production cost, supplies chains and operating management, innovation and business building, market and livestock market in Thailand, consumer behavior, change and farm improvement.
- *715 722 Clinical Practice in Artificial Insemination and Reproductive Technology** 1(0-2-1)
 Prerequisite : none
 Practice in swine artificial insemination, practice in cattle artificial insemination, practice in poultry artificial insemination, practice in handling of artificial insemination instruments.
- *717 731 Health Problems and Management in Ruminant** 3(3-0-6)
 Prerequisite : none
 Factors affecting ruminant health; health problems in ruminant; diagnostic techniques for ruminant health problems in ruminant; practical

guidelines for of health management in ruminant; control and prevention of health problems in ruminant.

*717 732 Milk Quality and Production Management 2(2-0-4)

Prerequisite : none

Current situation of milk production and quality, factors affecting the raw milk production and quality, investigation of milk quality and udder health problems individuals and herd levels, therapeutic guidelines for udder health problems, milk quality and mastitis control and milking management.

*717 733 Ruminant Clinical Practice 3(0-6-3)

Prerequisite : none

Practice in processes of history taking, physical examination, sample collection for diagnosis, laboratory diagnosis, techniques of special diagnosis, treatment, prognosis, control and prevention of diseases in ruminant in aspects of medicine, theriogenology, obstetrics, surgery and pathology in the individuals; Practice in herd health management in ruminants: collection, validation and analysis of data, Planning and giving advices for herd management; Summary.

*717 734 Clinical Ruminant Nutrition 2(2-0-4)

Prerequisite : none

Ruminant alimentary system, importance of nutritional condition on health and production, minimum nutritional requirement for cattle, metabolic disorders related to alimentary system, investigation of nutritional condition clinical nutrition individuals and herd levels, nutritional management enhancing productive performance and health.

*717 735 Practice in Poultry Disease Diagnosis 2(0-4- 2)

Prerequisite : none

Diagnosis of viral infectious disease using egg incubation or cell culture method, an assessment of Newcastle disease virus virulence, preparation of inoculation dose for research trial, primer designs for diagnosis important diseases, histopathology diagnosis.

*717 736 Clinical Swine Nutrition 2(0-4-2)

Prerequisite : none

Feed formula and ingredients, effect of nutrition imbalance to fertility and disease immunity in swine, relationship among nutrition, health and fertility in the pig herd, control and diagnostic strategies for nutritional problem in the pig herd.

*717 737 Health and Production Management in Swine Heard 1(1-0- 2)

Prerequisite : none

Importance of herd health management and production efficiency in swine herd, General management, disease control and prevention, production efficiency evaluation in breeding herd.

*717 738 Practice in Health and Production Management in Swine Herd 2(0-4-2)

Prerequisite : none

General management, disease control and prevention program, analysis of production parameter in breeding herd, conclusion and advice for practical management.

18. Assurance of the Program

The program will be determined and controlled by 4 parts of administrated bodies.

18.1 Administration of program

18.1.1 There is the Program's Coordinators.

18.1.2 There is the Program Faculty Staff

18.1.3 There is the Program's Administration

18.2 Teaching resource

18.2.1 There are classroom and equipments.

18.2.2 There are research laboratory room and equipments.

18.3. Thesis advisory and control system.

18.3.1 There are thesis advisory

18.3.1 There are research grant

18.4 Evaluation by external stakeholders and job market

18.4.1 Survey satisfaction of the user

18.4.2 Survey questionnaire on the job position

19. The program Development System

The program is evaluated annually for teaching and learning activity and every five years for the structure and performance against the goal.