Course syllabus
Second Semester Academic Year 2025

1. Faculty of Veterinary Technology **Department:** Veterinary Nursing
2. Course code: 01603236 **Course title:** Parasitology for Veterinary Nursing
Course credit: 3(2-3-6)
Prerequisite: None
Sec 230, 230
Date/Time Monday 13.00 – 15.00
Wednesday 13.00 – 16.00
Location Room 1-401 Veterinary technology teaching and laboratory Building (Lecture)
Room 1-801 Veterinary technology teaching and laboratory Building (Laboratory)

3. Instructors

1. Asst.Prof.Dr.Wanat Sricharern (WS) Course coordinator
2. Assoc.Prof.Dr.Rucksak Rucksaken (RR) Co-Instructor
3. Asst.Prof.Dr.Bandid Mangkit (BM) Co-Instructor
4. Dr.Airada Pintong (AP) Co-Instructor
5. Mr. Khomsan Satchasathaporn (KS) Teaching Scientist
6. Miss Rattana Muikaew (RM) Teaching Scientist

4. Academic advising and consultation

1. Asst.Prof.Dr.Wanat Sricharern
   Room 614, Veterinary technology teaching and laboratory Building
   Office hours: Monday-Friday 8.30 – 16.30 (appointment required)
   Tel. 0-2579-8573-5 ext 616002 E-mail: cvtwns@ku.ac.th

5. Course objectives

1. To provide students with a comprehensive understanding of endoparasites and ectoparasites of veterinary and public health importance in Thailand.

2. To enable students to apply their knowledge in professional practice, including educating animal owners and the general public, to facilitate the diagnosis, treatment, control, and prevention of parasitic diseases.

6. Mapping of CLOs with Sub-PLOs

CLOs	Course learning outcomes: CLOs	Related Sub-PLOs (100%)				
		1	2	3	4	5
1	Explain the morphology, life cycle, transmission, and pathogenesis of internal and external parasites of veterinary and public health significance in Thailand. (75%)	1.5				
2	Identify common internal and external veterinary parasites using microscopic examination accurately and safely. (20%)		1			

CLOs	Course learning outcomes: CLOs	Related Sub-PLOs (100%)				
		1	2	3	4	5
3	Demonstrate leadership and teamwork skills, along with responsibility and punctuality. (5%)			0.1		

Remark: Program learning outcome: PLOs and SubPLOs

PLO1 Graduates capable performing veterinary nursing practices through the integration of professional nursing knowledge and clinical analytical reasoning

SubPLO1. Apply the fundamental principles, concepts, and processes of veterinary nursing and related animal health sciences.

SubPLO2. Perform veterinary nursing procedures with technical accuracy and safety.

SubPLO3. Perform veterinary nursing practices with ethical standards, responsibility, communication, and collaborative teamwork in accordance with relevant laws.

PLO2 Graduate perform duties in animal nutrition, rehabilitation, disease control and prevention

SubPLO4. Apply the principles of animal nutrition, immunology, and epidemiology to manage disease prevention, zoonoses control, and post-nursing care protocols.

PLO3 Graduate use and maintain veterinary nursing equipment and tools correctly according to academic principles

SubPLO5. Handle veterinary drugs, instruments, equipment, and medical supplies safely and accurately.

7. Course Description

Important trematodes, cestodes, nematodes, parasitic protozoa and ectoparasites of livestock, companion animals, exotic animals, wildlife and public health. Morphology. Life cycle. Pathology. Diagnosis. Prevention and control.

8. Teaching and learning strategies

Instruction is delivered via interactive lectures designed to foster student engagement within the classroom. The teaching strategy incorporates diverse activities, including Q&A sessions and group work. To ensure learning efficacy, formative assessments such as frequent quizzes are utilized to monitor progress, enabling instructors to adapt their teaching strategies and material to better meet student needs.

9. Teaching materials

1. Audiovisual Equipment: Computers, digital projectors, projection screens, and television displays.

2. Instructional Media: Educational video clips and comprehensive self-study materials.

3. Learning Management System: Communication and assignment submissions via Google Classroom.

10. Assessment and Evaluation

10.1 Examination

1) Midterm Exam

Lecture 30%

Laboratory	10%
2) Final Exam	
Lecture	30%
Laboratory	10%
10.2 Presentation of case-based learning	20%
Total	100%

11. Achievement indicator

90% of students passed the course.

12. Course Evaluation

The grading criteria are in accordance with the University's academic regulations. Grades are determined using either the criterion-referenced or norm-referenced evaluation method. In the case of criterion-referenced grading, the following standard is applied:

Score 100-80	Grade A	Score 64-60	Grade C
Score 79-75	Grade B+	Score 59-55	Grade D+
Score 74-70	Grade B	Score 54-50	Grade D
Score 69-65	Grade C+	< Score 50	Grade F

13. Teaching textbooks and references

1. Bowman, Dwight D. Georgis' Parasitology for Veterinarians 10th edition. 2014. Elsevier Health Sciences.

2. G M Urquhart et al. 1996. Veterinary Parasitology. 2nd ed. The Faculty of Veterinary Medicine, The University of Glasgow Scotland: Blackwell Science

3. M A Tatlor et al. 2007. Veterinary Parasitology 3rd ed. Blackwell Publishing

4. William J. Foreyt. Veterinary Parasitology: Reference Manual Spiral-bound – October 15, 2001. ISBN 13: 978-0813824192, Edition: 5

14. Course Contents

Week	Date	Title	Instructor	Lesson Learning Outcomes (LLO)	Course Learning Outcomes (CLOs)	Teaching learning approaches	Assessment method
1	Nov 24, 2025	Course Orientation and introduction to Parasitology for Veterinary Nursing	WS	Explain the veterinary significance of Parasitology.	CLO1	Interactive lecture	MCQs, SAQs
	Nov 26, 2025	1. Introduction to veterinary protozoology 2. Amoebas protozoa 3. Ciliated protozoa	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for protozoa.	CLO1	Interactive lecture	MCQs, SAQs
2	Dec 1, 2025	Flagellated protozoa, Coccidian and tissue cyst-forming protozoa	RR		CLO1	Interactive lecture	MCQs, SAQs
	Dec 3, 2025	**LAB:** Amoebas, ciliated, flagellated, coccidian and tissue cyst-forming protozoa	RR, WS, KS, RM, BM, AP	Identify Protozoa species under microscopy	CLO2	Study under microscopy	SAQs
3	Dec 8, 2025	Blood protozoa: (Hemoflagellate, Apicomplexa, Piroplasm, Rickettsia)	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for blood protozoa.	CLO1	Interactive lecture	MCQs, SAQs
	Dec 10, 2025	**University Holiday**					
4	Dec 15, 2025	1. Introduction to veterinary entomology	WS	Describe the morphology, life cycle, pathogenesis, control and	CLO1	Interactive lecture	MCQs, SAQs

		2. Dipterans (flies) of veterinary importance		prevention strategies for ectoparasites.			
	Dec 17, 2025	**LAB:** Blood protozoa: (Hemoflagellate, Apicomplexa, Piroplasm, Rickettsia)	RR, WS, KS, RM, BM, AP	Identify blood protozoa species under microscopy	CLO2	Study under microscopy	SAQs
5	Dec 22, 2025	1. Lice of veterinary importance 2. Flea of veterinary importance	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for ectoparasites.	CLO1	Interactive lecture	MCQs, SAQs
	Dec 24, 2025	**LAB:** 1. Dipterans (flies) of veterinary importance 2. Lice of veterinary importance 3. Flea of veterinary importance	WS, RR, KS, RM, BM, AP	Identify ectoparasite species under microscopy	CLO2	Study under microscopy	SAQs
6	Dec 29, 2025	Ticks of veterinary importance	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for ectoparasites.	CLO1	Interactive lecture	MCQs, SAQs
	Dec 31, 2025	**University Holiday**					
7	Jan 5, 2026	Mites of veterinary importance	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for ectoparasites.	CLO1	Interactive lecture	MCQs, SAQs
	Jan 7, 2026	**LAB:** Ticks and mites of veterinary importance	WS, RR, KS, RM, BM, AP	Identify ectoparasite species under microscopy	CLO2	Study under microscopy	SAQs

Midterm Examination							
8	Jan 19, 2026	1. Introduction to trematodes 2. Trematodes of veterinary importance	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for trematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Jan 21, 2026	**LAB:** Trematodes of veterinary importance	RR, WS, KS, RM, BM, AP	Identify trematode species under microscopy	CLO2	Study under microscopy	SAQs
9	Jan 26, 2026	Trematodes of veterinary importance	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for trematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Jan 28, 2026	**LAB:** Trematodes of veterinary importance	RR, WS, KS, RM, BM, AP	Identify trematode species under microscopy	CLO2	Study under microscopy	SAQs
10	Feb 2, 2026	Introduction to cestodes	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for cestodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Feb 4, 2026	Cestodes of veterinary importance	WS	Identify cestode species under microscopy	CLO2	Study under microscopy	SAQs
11	Feb 9, 2026	Cestodes of veterinary importance	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for cestodes.	CLO1	Case-based learning	MCQs, SAQs

							Assignment
	Feb 11, 2026	**LAB:** Cestodes of veterinary importance	WS, RR, KS, RM, BM, AP	Identify cestode species under microscopy	CLO2	Study under microscopy	SAQs
12	Feb 16, 2026	1. Introduction to nematodes 2. Important nematodes of companion animals	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for nematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Feb 18, 2026	**LAB:** Important nematodes of companion animals	RR, WS, KS, RM, AP	Identify nematode species under microscopy	CLO2	Study under microscopy	SAQs
13	Feb 23, 2026	Important nematodes of companion animals	RR	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for nematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Feb 25, 2026	**LAB:** Important nematodes of companion animals	RR, WS, KS, RM, BM, AP	Identify nematode species under microscopy	CLO2	Study under microscopy	SAQs
14	Mar 2, 2026	Important nematodes of livestock	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for nematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment

	Mar 4, 2026	**LAB:** Important nematodes of livestock	WS, RR, KS, RM, BM, AP	Identify nematode species under microscopy	CLO2	Study under microscopy	SAQs
15	Mar 9, 2026	Important nematodes of livestock	WS	Describe the morphology, life cycle, pathogenesis, control and prevention strategies for nematodes.	CLO1	Case-based learning	MCQs, SAQs Assignment
	Mar 11, '26	**LAB:** Important nematodes of livestock	WS, RR, KS, RM, AP	Identify nematode species under microscopy	CLO2	Study under microscopy	SAQs
Final Examination							

(Assoc.Prof.Dr.Wanat Sricharern)
12 November 2025