

## 2017 Syllabus

- Clinical Practice in Farm Animals
- **Clinical Practice in Farm Animals II**
- Clinical Practice in Microbiology II
- Clinical Practice in Epidemiology
- **Clinical Practice in Large Animals**
- Clinical Practice in Ruminants and Wildlife
- Special Clinical Practice in Small Animal

Course Title Clinical Practice in Farm Animals	

Туре	Exercise, Clir	nical Practices	Number of credits	6	Hours	180
Course Ir	structor	Pichai JIRAWA Kriangkrai WIT	PERM, Nattavut RA1 ITTANAPONG, Narir OONSATHIEN, Visa ICHAYAPONG	n UPRAG	ARIN,	
Course O	verview:					
	0.1		ealth monitoring, clini asizing on swine, poul			sis, treatment an
Course G	oals:					
2. To 3. To 4. To exp	be able to plan be able to do n be able to inte blain to the own	a diagnostic scł ecropsy and ma erpret laboratory er	om history taking from neme and further inversive and further inversive and further inversion of management and	estigation osis based a conclu	s d on lesions sion of the cli	
	•	ng diseases in th	e future			
Course S	chedule:					
12-13: 14-15:	Clinical practice Clinical practice diagnosis Clinical practice Clinical practice diagnosis	e in pigs: basic far e in poultry: basic e in fishes: basic f	e in Farm Animals m and health manage farm and health mana arm and health mana farm and health mana tation	agement, fa gement, fa	arm visit, necro	psy and
Remarks:						

verview: farm visiting, pro medicine in farm	Pariwat POOL Pichai JIRAWA Kriangkrai WIT Natthana THIT duction and hea	ATTANÀPONG, Nari OONSATHIEN, Vis ICHAYAPONG alth monitoring, clinica	TTANAVA in UPRAC	GARIN,	60										
structor verview: farm visiting, pro medicine in farm	Pariwat POOL Pichai JIRAWA Kriangkrai WIT Natthana THIT duction and hea	PERM, Nattavut RA ATTANAPONG, Nari TOONSATHIEN, Vis TICHAYAPONG	TTANAVA	NIJROTE, GARIN,											
farm visiting, pro medicine in farm		•			Course Instructor Pariwat POOLPERM, Nattavut RATTANAVANIJROTE, Pichai JIRAWATTANAPONG, Narin UPRAGARIN, Kriangkrai WITOONSATHIEN, Visanu BOONYAWIWAT, Natthana THITICHAYAPONG										
medicine in farm		•		Course Overview:											
l-:		asizing on swine, pou	Practice in farm visiting, production and health monitoring, clinical examination, diagnosis, treatment and preventive medicine in farm animals, emphasizing on swine, poultry and aquatic animals.												
oals:															
be able to plan a be able to do ne be able to inter lain to the owne be able to explai	diagnostic sc cropsy and ma pret laborator n an overview	heme and further inv ake differential diagn y results and make of management and	vestigation osis base a conclu	ns d on lesions usion of the c											
chedule:															
Clinical practic diagnosis Clinical practice diagnosis Clinical practice	e in pigs: bas e in poultry: ba	ic farm and health sic farm and health	managen	nent, farm visit	, necropsy and										
0	e in shrimp: ba	sic farm and health	managen	nent, farm visit	t, necropsy and										
-	ssion and Pres	sentation													
	be able to plan a be able to do new be able to inter lain to the owner be able to explain se of preventing chedule: Introduction to 0 Clinical practice diagnosis Clinical practice diagnosis Clinical practice diagnosis Clinical practice diagnosis Practice Discus	be able to plan a diagnostic school able to do necropsy and mathematication able to interpret laboratory lain to the owner be able to explain an overview se of preventing diseases in the chedule: Introduction to Clinical Practice Clinical practice in pigs: base diagnosis Clinical practice in poultry: base diagnosis Clinical practice in fishes: base diagnosis Clinical practice in shrimp: base diagnosis Clinical practice in shrimp: base diagnosis Practice Discussion and Preserves and the preserves of the preserves of the provide t	<ul> <li>be able to plan a diagnostic scheme and further involue able to do necropsy and make differential diagnoble able to interpret laboratory results and make lain to the owner</li> <li>be able to explain an overview of management and se of preventing diseases in the future</li> <li>chedule:</li> <li>Introduction to Clinical Practice in Farm Animals Clinical practice in pigs: basic farm and health diagnosis</li> <li>Clinical practice in poultry: basic farm and health diagnosis</li> <li>Clinical practice in fishes: basic farm and health diagnosis</li> <li>Clinical practice in shrimp: basic farm and health diagnosis</li> <li>Practice Discussion and Presentation</li> </ul>	<ul> <li>be able to plan a diagnostic scheme and further investigation be able to do necropsy and make differential diagnosis base be able to interpret laboratory results and make a conclutain to the owner</li> <li>be able to explain an overview of management and medical se of preventing diseases in the future</li> <li>chedule:</li> <li>Introduction to Clinical Practice in Farm Animals</li> <li>Clinical practice in pigs: basic farm and health management diagnosis</li> <li>Clinical practice in fishes: basic farm and health management diagnosis</li> <li>Clinical practice in shrimp: basic farm and health management diagnosis</li> <li>Practice Discussion and Presentation</li> </ul>	be able to explain an overview of management and medical suggestions to se of preventing diseases in the future chedule: Introduction to Clinical Practice in Farm Animals Clinical practice in pigs: basic farm and health management, farm visit diagnosis Clinical practice in poultry: basic farm and health management, farm visit diagnosis Clinical practice in fishes: basic farm and health management, farm visit diagnosis Clinical practice in fishes: basic farm and health management, farm visit, diagnosis Clinical practice in shrimp: basic farm and health management, farm visit, diagnosis Practice Discussion and Presentation										

Course Title	Clinical Practice in Microbiology II
Course mile	Clinical Practice in Micropiology II

Type Exercise, Clinical Practices Number of credits 1 Hours -								
Course Instructor Porntippa LEKCHAROENSUK, Kunyarat THUENG-IN, Win SURACHETPONG								
Key words:								
Sample collection and handling, diagnostic virology and serology, laboratory analysis and interpretation, human and animal health.								
Course Overview:								
Clinical practice in Microbiology. Knowledge integration of sample collection, sample handling, diagnostic virology, serology and molecular biology, laboratory analysis and interpretation for disease investigation. Using problem-based learning.								
Course Goals:								
<ol> <li>Understand principle of diagnostic virology and serology</li> <li>Understand how to apply virology and immunology to identify cause(s) of disease outbreaks</li> <li>Integrate previous and current knowledge to set a diagnostic plan for a disease investigation</li> <li>Conclude and interpret laboratory diagnostic data and results</li> </ol>								
Course Schedule:								
Each group of student will receive at least two problems. The instructors will advise the students to go through the following steps to solve each problem.								
1. Instructor outlining steps of the study using problem-based learning and providing a problem set								
2. Opening the problem, setting objectives of learning and defining terminology								
3. Group meeting and self-study to set the diagnostic plan								
<ul> <li>4. Student presentation: the tentative/differential diagnosis of the disease in the problem, present the diagnostic plan including sample collection and handling, possible diagnostic methods</li> <li>5. Laboratory practice, self-study regarding the principle of the diagnostic method(s) and</li> </ul>								
understand the causative pathogen(s), immune response to infection, pathogenesis, disease prevention and control								
6. Student presentation: principle of the diagnostic method(s) and understand the causative								
<ul><li>pathogen(s), immune response to infection, pathogenesis, disease prevention and control</li><li>7. Instructor conclusions and problem closing</li></ul>								
Demortes								
Remarks:								

Course Title	Clinical Practice in Epidemiology
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Туре	Exercise, Cli	nical Practices	Number of credits	2	Hours	60
Course Instructor Sirichai WONG		GNAKPETCH, Suwic GYUAN, Chaithep P		,		

Course Overview:

Practice in veterinary public health and epidemiology, survey and study design, statistical analysis, determination of risk and tabletop exercise.

Course Goals:

- 1. To better understand the study design in epidemiological context
- 2. To practice the data analysis in epidemiology
- 3. To better understand the control measurement of Thai authorities in veterinary practices

Course Schedule:

Day #:

- 1: Design and planning on epidemiological study
- 2: Statistical analysis for qualitative data
- 3: Statistical analysis for quantitative data
- 4: Sampling and sample size determination
- 5: Tabletop exercise
- 6: Risk determination
- 7: Measurement of association
- 8-10: Design, planning, data collection and interpretation of survey study

Course Title	Clinical Practice in Large Animals
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Туре	Exercise, Cli	inical Practices	Number of credits	6	Hours	180
Course In	structor	Theera RUKW Tanu PINYOPU Krittisak TANC	PAS, Somchai SAJA ARMSUK, Adisorn Y JMMINTR, Anuchai HAROEN, Wandee Kanitha PETUDOMS GTIP	AWONG PINYOPL TEINGTU	SA, Jaturong JMMINTR, IM, Worakit C	WONGSANIT, HEDCHOOTUM,

Course Overview:

Combination of comprehensive lectures and clinical practices in medicine, surgery, theriogenology in ruminant, equine, and wildlife. Herd health management in ruminant species including dairy and beef cattle and small ruminants at veterinary teaching hospital and private farms. Wildlife ecology management practice in wildlife and exotic species practicing at veterinary teaching hospital and on wildlife national park.

Course Goals:

- 1. To be able to practice in physical and clinical examination, diagnosis, treatments, prevention and control disease related to medical, surgical, and theriogenological problems in ruminants at individual and herd level.
- 2. To be able to practice in physical and clinical examination, diagnosis, treatments, prevention and control disease related to medical, surgical, and theriogenological problems in horses.
- 3. To be able to practice in physical and clinical examination, diagnosis, treatments, prevention and control disease related to medical, surgical in wildlife and exotic pets.

Course Schedule:

Week #:

- 1: Introduction to Clinical Practice in Ruminants; infectious disease review, anesthesia review, hoof health and udder health review.
- 2-7: Clinical practice in ruminants; basic farm and health management, farm visit
- 8: Introduction to Clinical Practice in Equine; basic skill review (restraint and physical examination.
- 9-12: Clinical practice in equine; equine ward practice, farm visit, surgical cases.
  - 13: Wildlife conservation medicine, anesthesia, drat practice, exotic pet medicine, rabbit medicine, and raptor medicine.
  - 14: Post mortem technique and clinical related Rabbit model, radiographic interpretation, comparative medicine.
  - 15: Examination

Course Title Clinical Practice in Ruminants and Wildlife									
Туре		se, Clii	nical Practi			of credits	4	Hours	120
Course Ins	structor		Theera R Tanu PIN	UKW YOPI TANC	ARMSUH UMMINTI HAROEN	K, Adisorn N R, Anuchai	YAWONG PINYOPI	JMMINTR,	IGMALEE, 9 WONGSANIT, 1 SANTITISAREE,
Course Ov	verview:								
ruminant, a small rumir	nd wildlife nants at v	e. Hero eterina	d health ma ary teaching	anage g hosp	ment in ru bital and p	iminant spe rivate farms	cies includ . Wildlife e	•	beef cattle and gement practice in
Course Go	oals:								
and indiv 2. To b	control d idual and be able t control d	isease d herd o prac	e related to level. ctice in phy	ysica	lical, surg I and clin	ical, and th	eriogenolenation, dia	ogical proble	tments, prevention ems in ruminants at tments, prevention
Week #:									
2-11: 12:	review, h Clinical Wildlife	noof he practio conse	ealth and u ce in rumin	udder iants; edicin	health re basic far e, anesth	view. m and heal	lth manag	ease review, ement, farm xotic pet med	
13-14:	Post mo compara	ortem ative m	technique			ated – Rab	bit model,	, radiographi	c interpretation,
10:	Examin	auon							

Course Title	Special Clinical Practice in Small Animal	

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Тур		linical Practices	Number of credits	3	Hours	90
Cours	se Instructor	Amornrate SAS Jatuporn NOO Panpicha SAT Sunee KUNAK Monchanok VI	KCHAROENSUK, N STRAVAHA, Chayak SUD, Kanja KAEWN FASATUCHANA, Sir ORNSAWAT, Aree T JARNSORN, Naris T ITIYANAPORN, Wa ERAPAN	irt SINTH 10NGKO ikul SUN THAYANA THENGCH	USINGHA, L, Tassanee , FARARAK, NUPHA, HAISIRI, Sirira	JAROENSONG,
Cours	se Overview:					
Stude	ent gains the clinica	al skills in small a	nimal practice. The p	practice a	ims to obtain	professional skills
partic	ularly on medicine	, surgery and the	riogenology in small	animal.		
Corus	se Goals:					
1.		•	application, and skill		•	•
2.			ealth evaluation, diag	•		
3. 4.			clinic in the real life nunicate with the clie	•		approacn
	•				lively	
Cours	se Schedule:					
1.	How to take histo	ny and do physic	al examination effect	ivolv		
			a oriented approach	ivery		
	How to calculate	• •				
	-Fluid therapy					
	-Continuing rate	e infusion				
	-Clinical nutritic	on (enteral and pa	arenteral nutrient req	uirements	S)	
4.	Plan the diagnosi	is and treatment,	and interpret the res	ults efficie	ently and effe	ctively
	-Complete bloc	od count, blood cl	nemistry, and urinaly	sis		
	-Cytology					
	-Imaging					
F	-Other tests	propoduro offort		inione er	d problem al-	sing
5.	-Anesthesia		vely Instructor conclu	USIONS an		Sing
		d orthopedic surg	erv			
6.	Client communica		-			
Rema						
	ing Materials			line 44-		
	DiBartola, S.P. 201 Saunders	∠. ⊢iuia tnerapy	in small animal prac	uce, 4th e	eu. St. Louis,	IVIISSOUII, EISEVIEI
		7 Small animal s	urgery, 3rd ed. Misso	uri Moet	v-Elservier Ir	nc
			feline endocrinolog		•	
	Saunders		is a characterine of g	,		
		Miller's anatomy	of the dog. Philadelp	hia, WB	Saunders Co	mpany
			-			