

Course name:**Infectious diseases of farm animals**

ECTS	4
Course status	obligatory
Course final assesement/evaluation of outcomes	exam
Prerequisites	

Main field of study: epidemiology, microbiology, infectious diseases

Profile of study	General-academic
The code of studies (education level)	SM
Semester of studies	winter / summer
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Veterinary Medicine
Course coordinator	Assoc. Professor Kazimierz Tarasiuk DVM, PhD, DSc

Learning outcomes of the course:

Symbol of outcome	Description of learning outcome	Reference to	
		main field of study outcomes	discipline#

KNOWLEDGE – student knows and/or understands:

	identifies and describes the biology of infectious agents causing animal diseases and anthroozoonoses including the transmission and organism's defence mechanisms		RW
	conducts veterinary ante- and post-mortem inspections		
	follows the procedures required in the event of a case of notifiable disease		

SKILLS – student is able to:

	effectively communicate with clients, other veterinary surgeons and employees of inspection, state, and local administration bodies and authorities		RW
	perform post-mortem examinations along with reports, take samples and adequately secure the samples for transport		
	implement the procedures required in the event of a case of a notifiable diseases		

SOCIAL COMPETENCES- student is ready to:

	committ to continuous learning and development of skills		RW
	collaborate with representatives of other professions as regards of protection of public health		
	organise team work		

Teaching contents:

Lectures	30	hours
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Topics of the lectures	<ol style="list-style-type: none"> 1. Introduction into infectious diseases of farm animals. Epidemiology. Role in public health. General methods of prevention, control and eradication. 2. Hemorrhagic diseases of pigs (classical swine fever, African swine fever, erysipelas). Etiology, pathogenesis, epidemiology, differential diagnosis. 3. Pig diseases related to nervous system (Aujeszky disease, Teschen disease, Glasser disease, Streptococcal infections in pigs) – etiopathogenesis, epidemiology, differential diagnosis. 4. Reproductive diseases of pigs (PRRS, Parvovirus infections, PCV2, Brucellosis, Leptospirosis) – etiopathogenesis, epidemiology, diagnosis. 5. Respiratory diseases of pigs (App, IAV, Mhp, PRDC) – etiopathology, epidemiology, differential diagnosis. 6. Porcine enteropathies (swine dysentery, ileitis, TGE, PED) – Etiopathogenesis, epidemiology, differential diagnosis. 7. Final test of porcine infectious diseases 8. Vesicular diseases, Bluetongue, Rinderpest, Pseudorinderpest of small ruminants – etiopathogenesis, epidemiology, differential diagnosis 9. Q fever, West Nile Virus, Rift Valley Fever – etiopathogenesis, epidemiology, differential diagnosis. 10. Schmallenberg infections, lumpy skin disease, contagious bovine pleuropneumonia – etiopathogenesis, epidemiology, differential diagnosis 11. Chlamydiae, campylobacteriosis, salmonellosis, ovine chlamydiosis – etiopathogenesis, diagnosis. 12. Infectious diseases of ovine, maedi-visna disease, caprine arthritis encephalitis, scrapie – etiopathogenesis, epidemiology, differential diagnosis. 13. Anthrax, respiratory diseases of ovine, pastereiosis, adenomatosis – etiopathology, epidemiology, diagnosis. 14. Sheep pox and goat pox, caseous lymphadenitis, ovine pulmonary adenomatosis, contagious agalactia of sheep and goats – etiopathogenesis, epidemiology, differential diagnosis 15. Immunoprophylaxis of bovine sheep and goats. Final test of bovine and small ruminants diseases <p>Final exam – infectious diseases of farm animals</p>
Accomplished learning outcomes	<i>symbols of learning outcomes for lectures</i>
Verification methods, rules and criteria of outcome assessment	<i>particular credits (oral, practical) Written examination, theoretical and practical examination.</i>
Classes	45 hours
Topics of the classes	<ol style="list-style-type: none"> 1. Prevention and control of infectious diseases of farm animals and law. 2. ASF, CSF – clinical signs and lesions, prevention, control, stamping out. 3. Aujeszky disease, Teschen disease – clinical signs and lesions, diagnosis, prevention and control. 4. PRRS, PPV – clinical signs and lesions, prevention, control and elimination. 5. Respiratory diseases of pigs – clinical signs and lesions, diagnosis and differentiation, prevention, control, elimination. 6. Intestinal tract diseases of pigs – clinical signs and lesions, diagnosis, prevention, therapy and control. 7. Laboratory diagnostics of infectious pig diseases. 8. FMD – etiopathogenesis, epidemiology, clinical signs and lesions, diagnosis, prevention and control. 9. Enzootic bovine leukosis, IBR/IPV – etiopathogenesis, epidemiology, clinical signs and lesions, prevention and control. 10. Bovine tuberculosis, paratuberculosis – differential diagnosis, control. Tuberculosis as zoonotic pathogen. 11. BVD/MD, viral diarrhoeas (rota and corona viruses) – epidemiology, differential diagnosis, prevention and control. 12. Brucellosis, bovine spongiform encephalopathy – epidemiology, control. 13. Bovine respiratory infections - etiopathogenesis, epidemiology, clinical signs and lesions, differential diagnosis, prevention and control. 14. Anaerobic infections in bovine, sheep and goats – epidemiology, differential diagnosis, prevention and control. 15. Laboratory diagnostics of infectious diseases of bovine, sheep and goats.
Accomplished learning outcomes	
Verification methods, rules and criteria of outcome assessment	<i>together with participation in the final assessment (in %)</i>

References:

Basic	<i>Diseases of Swine. 11th edition. Ed.: Zimmerman J.J., Karriker L.A., Ramirez A., Schwartz K.J., Stevenson W.G., Zhang J., Wiley-Blackwell, 2019; Pig Disease Identification and Diagnosis Guide. Steven McOrist, CABI Publishing, 2014; Sheep and Goat Diseases. Johannes Winkelmann, 5 M Books Ltd., 2017; Color Atlas of Diseases and Disorders of Cattle. Blowey R.W., Weaver D.A. Third edition, 2011.</i>
Supplementary	<i>The Pig site; The Cattle Site; pig 333.com</i>

Structure of learning outcomes:

Discipline: # (provide appropriate symbol)	4...	ECTS**
Discipline: # (provide appropriate symbol - if the course relates to more than one academic discipline)	4...	ECTS**

Structure of student activities:

Contact hours	75	hours	3	ECTS**
including:				
lectures	30	hours		
classes and seminars	45	hours		
consultations	10	hours		
participation in research	20	hours		
mandatory traineeships	11	hours		
participation in examinations	4	hours		
e-learning	0	hours	...	ECTS**
student own work	25	hours	1	ECTS**

* where 10 hours of classes = 1 ECTC (in case of 15 h → 2 ECTS)

** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.