

Academic subject: Health Management of farms, kennels, catteries and shelters			
Degree Class: L38		Degree Course: Animal Science	Academic Year: 2020/2021
		Kind of class: Mandatory	Year: III
			Period: I semester
			ECTS: 8 CFU divided into ECTS lessons: 7 ECTS exe/lab/tutor: 1
Time management, hours, in-class study hours, out-of-class study hours lesson: 70 exe/lab/tutor: 25 in-class study: 0 out-of-class study: 105			
Language: Italian	Compulsory Attendance: yes		
Subject Teacher: Marialaura Corrente	Tel: +390804679833 e-mail: marialaura.corrente@uniba.it	Office: Department of Veterinary Medicine Room Floor	Office days and hours: Tuesday, Thursday 12:30am – 1:30pm 2:30pm – 4:30pm Every day on Microsoft teams, by appointment
Prerequisites: General Pathology and Pathophysiology, Parasitology, Mycology and Management of Synanthropic Animals. Basic knowledge in the field of microbiology, and knowledge of pathological processes at the cellular and tissue levels. These skills are prerequisites for the study and understanding of infectious animal diseases.			
Educational objectives: The students will learn the basic notions of hygiene, biosecurity and epidemiology, and knowledge of infectious diseases of animals, zoonoses, and preventive rules that need to be adopted.			
Expected learning outcomes (according to Dublin Descriptors)	<p>Knowledge and understanding: Essential concepts of health management and a preventive approach to understand the main infectious diseases of animals, with particular attention to zoonoses and diseases subjected to the Veterinary Police Regulation.</p> <p>Applying knowledge and understanding: Autonomy in the health management of farms, kennels and catteries and application of biosecurity rules; interpretation of the main diagnostic techniques and regulation for the prevention of infectious diseases.</p> <p>Making judgements: The acquired competences will allow the students to independently approach to health management and acquire the skills for decision making in prevention plans.</p> <p>Communication: The students will acquire the technical terminology necessary to interact with other professionals.</p> <p>Lifelong learning skills: the skills required for assisting in: i) the health management of farms, kennels and catteries; ii) in the management of outbreaks of diseases and eradication plans.</p>		
<p>Course program: Hygiene principles: Evolution of the hygiene concept throughout history. Environmental, urban and zootechnical hygiene. World Health Organisation: objectives and organisation. Organisation of the Veterinary Health System at international and national Animal identification systems. Notifiable animal infectious diseases. Organisation of prophylaxis plans. Evaluation of costs and benefits in a prophylaxis plan (vaccination versus eradication). Stamping out and examples of application. Conditions that promote infections. Sources and reservoir of infections. Acute, sub-acute, persistent and latent infections.</p> <p>Routes of entry and elimination of pathogens. Spreading of infectious diseases. Epidemics, pandemics, endemic and sporadic diseases. Diagnostic tests: sensitivity and specificity.</p> <p>Kennel health management. Definition of kennels and shelters. Biosafety in kennels.</p> <p>Catteries health management. Definition of catteries and feline colonies. Biosafety.</p> <p>Emerging infectious diseases in livestock animals; infectious diseases subjected to national eradication plans. Farm Health management. Biosafety.</p> <p>Bovine mastitis. Biosafety and hygiene of milking.</p> <p>Abortions caused by infectious agents in farm animals. Prevention.</p> <p>Zoonoses.</p> <p>Drug resistance. Prudent use of antibiotics.</p>			

Teaching methods: Lessons with power-point slides, videos and other sources in classrooms equipped with multimedia tools. The practical activities are carried out by using software and performed in the laboratories of the section of Infectious Diseases of the Department. The students are divided in groups of 10-15 persons.

Auxiliary teaching: gown, gloves, masks, disposable shoe covers

Assessment methods: The evaluation of knowledge takes place through a written or oral test. The written or oral exam will define the exam of "Biosafety and health management (13 ECTS)" together with the test of "Healthcare management of poultry and rabbit farms and wildlife"

Bibliography: Poli, Cocilovo. "Microbiologia e Immunologia Veterinaria", II edizione, 2005, Ed. UTET.
Farina -Scatozza "Trattato di Malattie Infettive degli Animali Domestici", 2006 Ed. UTET.
Bottarelli, Ostanello. "Epidemiologia", 2011, edizioni Edagricole.
Barbuti, Fara, Giammanco. "Igiene, Medicina Preventiva, Sanità Pubblica". 2014 EdiSES.
Dispensa di epidemiologia veterinaria a cura del prof. Ezio Bottarelli, disponibile on line (www.quadernodiepidemiologia.it).
Benazzi "Regolamento di Polizia Veterinaria", edizione 2014. Società editrice Esculapio.
Office International des Epizooties site (www.oie.int), English, French and Spanish
Slides of the lessons (on Microsoft teams).