

Course Unit Descriptor

Study Programme: Veterinary Medicine		
Course Unit Title: Veterinary Epidemiology		
Course Unit Code: 3IVM7O36		
Name of Lecturer(s): Aleksandar S. Potkonjak, Dragan R. Rogan		
Type and Level of Studies: Undergraduate academic studies		
Course Status (compulsory/elective): compulsory		
Semester (winter/summer): winter		
Language of instruction: English		
Mode of course unit delivery (face-to-face/distance learning): face-to-face		
Number of ECTS Allocated: 4		
Prerequisites: Statistics, Microbiology, Immunology, General and Special Pathological Morphology, General Clinical Diagnostics		
Course Aims: The course enables student to acquire: 1. knowledge about the objectives of epidemiology, applied epidemiology and validity of epidemiological research; 2. skills of application of methods of epidemiological research; and 3. skills of supervision and control of diseases of infectious and non-infectious etiology.		
Learning Outcomes: Upon completion of the course from this subject, student should be able to: 1. apply the basic the principles from epidemiology; 2. describe and analyze models of the causes of disease; 3. Select the type of study observation; 4. determine measures of the incidence of disease, as well as the measures of the predisposing / protective factors and diseases; 5. perform the analysis of the basic data that are important in epidemiology.		
Syllabus: <i>Theory</i> <i>Objectives and Methods of Epidemiological Research (Epidemiological research and causation, Measuring disease frequency (rate, risk, prevalence and odds), Epidemiological study design (cohort, case control, cross sectional and hybrid designs), Measuring effect (Rate ratio, risk ratio, prevalence ratio and odds ratio) and Measuring potential impact (attributable fractions). Validity of Epidemiological Research (validity, precision, types of error (systematic, random), hierarchy of populations, selection bias, information bias, confounding bias). Applied epidemiology (questionnaire design, sampling and study size estimation, epidemiological analysis (simple, stratified), surveillance and monitoring of disease, evaluation of diagnostic tests).</i> <i>Practice</i> <i>Epidemiological studies analysis. Gathering and assessment of epidemiological data. Calculations and analysis of results. Designing of epidemiological studies. Solving of epidemiological cases.</i>		
Required Reading: Valčić M. Opšta epizootiologija. Autor je izdavač, Beograd, 1998., Thrusfield M. Veterinary epidemiology. Third edition, Wiley-Blackwell, 2007., Dohoo I. et al. Veterinary Epidemiologic Research, First edition, AVC Inc., 2003., Toma B. et al. Dictionary of veterinary epidemiology. First edition, Iowa State University Press, 1999.		
Weekly Contact Hours:	Lectures: 3	Practical work: 2
Teaching Methods: Lectures, Practical classes, Consultations, research work		
Knowledge Assessment (maximum of 100 points):		

Pre-exam obligations	points	Final exam	points
Active class participation	0	written exam	70
Practical work	0	oral exam	0
Preliminary exam(s)	30	
Seminar(s)	0		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.