

Course Unit Descriptor

Study Programme: Veterinary medicine			
Course Unit Title: Diseases of bees			
Course Unit Code: 7IVM8048			
Name of Lecturer(s): Nada P.Plavša, Aleksandar Potkonjak			
Type and Level of Studies: Undergraduate Academic Studies			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face to face			
Number of ECTS Allocated: 4			
Prerequisites: Diseases of bees			
Course Aims: The case allows the student to acquire basic knowledge about the development beekeeping through the history and role in the biodiversity of bees, the biology of bees, about patogenima- parasites, fungi, bacteria, viruses, clinical examination skills, taking adequate samples for laboratory examination and identification of basic bee diseases, ability to define proper diagnosis of diseases of bees and effective therapy with the use of preventive measures			
Learning Outcomes: Upon completion of the course of this subjects students should be able to: define and explain the role of bees in pollination and production of bee products, to explain the biological development of bee colonies; to describe and recognize the primary pathogens of bees, their clinical picture, the method of sampling for laboratory diagnosis; to recommend effective means in fighting the established disease; to assess the conditions of bee placement and preventive measures in order to achieve good health of bee communities and getting quality and safe bee product			
Syllabus: <i>theory</i> History and development of beekeeping, bee biology, Apitehnica-basic elements, Infectious diseases of bees; Viral diseases of bees; Bacterial diseases bee brood; Diseases caused by fungi; Parasitic diseases of bees and bee brood; Noncommunicable disease aetiology and unknown origin; Diseases quinbee; Poisoning of bees, beekeeping antibiotics and endangerment bee products. Practical classes / Equipment for working with bees and preparation for clinical examination of bee colonies; Clinical examination bee hives- clinical examination of drone brood on Varooa; Sampling for inspection at the brood diseases and diseases of bees; View Bottom board (sampling), laboratory diagnostics-method of determining the number of Nosema sp.			
Required Reading: Dobrić Đorđe i sar.: (2000) Blesti pčela, Fakultet veterinarske medicine, Beograd Morse R.and Flottum K.: (1997) Honey bee Pests, Predators and Diseases. Root Company, Medina, Ohio, USA, Lolin M (1985) Bolesti pčela, Fakultet veterinarske medicine, Beograd			
Weekly Contact Hours: 2		Lectures: 2	
Practical work:			
Teaching Methods: Lectures, Practice/ Practical classes, Consultations, study, research work			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	5	written exam	
Practical work	20	oral exam	30
Preliminary exam(s)	5	
Seminar(s)	10		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			