

Course Unit Descriptor

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| Study Programme: Veterinary Medicine | | |
| Course Unit Title: Laboratory diagnostic of infective diseases of farm animals and horses | | |
| Course Unit Code: 3IVM11067 | | |
| Name of Lecturer(s): Aleksandar S. Potkonjak | | |
| 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: 2 | | |
| Prerequisites: Microbiology, Immunology, General and Special Pathological Morphology, General and Special Pathophysiology, Veterinary Epidemiology, Diseases of Poultry, Diseases of Pigs, Diseases of Ruminants I and II, Equine Diseases I and II | | |
| Course Aims: The course enables student to acquire: 1. knowledge of the principles underlying the methods of laboratory diagnostics, as well as their advantages and limitations, 2. skills for implementation of methods of laboratory diagnostics, and 3. the ability to interpret the results | | |
| Learning Outcomes: Upon completion of the course from this subject, student should be able to: 1. describe the principles underlying the methods of laboratory diagnostics, 2. explain the advantages and limitations of the methods of laboratory diagnostics, 3. choose methods of laboratory diagnostics corresponding to a clinical case, 4. implement the methods of laboratory diagnostics, 5. analyze and correctly interpret the results of laboratory diagnostics, and 6. compile a report and opinion about the laboratory diagnostics | | |
| Syllabus: <i>Theory</i> <i>Levels of bio security and safety work in the laboratory. Sampling, transport, reciving, processing of biological material, and issuing results of laboratory findings. Analyzing and Interpretation of the laboratory findings. Direct laboratory techniques for identification of causative agents of disease. Indirect laboratory techniques for identification of causative agents. Molecular techniques for diagnostic of infective agents</i> <i>Practice</i> <i>Receiving and processing of biological material. Performing and utilizing different methods of laboratory diagnostic. Analysis and interpretation of results of laboratory diagnostic. Preparation of reports and scientific opinions base on performed laboratory diagnostic.</i> | | |
| Required Reading: Coetzer J.A.V. Tustin R.C. Infectious Diseases of Livestock. Second edition, Oxford University Press, 2005. Straw B.E. et al. Sellon D.C., Long M. Equine Infectious Diseases. First edition, Saunders, 2006. OIE. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals. Sixth edition, 2008. www.oie.int | | |
| Weekly Contact Hours: | Lectures: 1 | Practical work: 1 |
| Teaching Methods: Lectures, Practical classes, Consultations, research work | | |
| Knowledge Assessment (maximum of 100 points): | | |

| Pre-exam obligations | points | Final exam | points |
|-----------------------------|--------|-------------------|--------|
| Active class participation | 15 | written exam | 50 |
| Practical work | 15 | oral exam | 20 |
| Preliminary exam(s) | 0 | | |
| 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.