

<b>Study Programme:</b> Veterinary Medicine			
<b>Course Unit Title:</b> Principles of cell biology			
<b>Course Unit Code:</b> 3IVM1178			
<b>Name of Lecturer(s):</b> Gordana M. Ušćebrka, PhD, Full Professor; Slobodan Z. Stojanović, PhD, Associate Professor			
<b>Type and Level of Studies:</b> Undergraduate Academic Studies			
<b>Course Status (compulsory/elective):</b> Elective			
<b>Semester (winter/summer):</b> Winter			
<b>Language of instruction:</b> English			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face			
<b>Number of ECTS Allocated:</b> 3,5			
<b>Prerequisites:</b> None			
<b>Course Aims:</b> 1. knowledge in the area of cell structure and cell components, cell organization and basic methods of cell examination; 2. skills to recognize the characteristic cell structures using microscope, which influence the cell organization; 3. the ability to understand the interconnections between cell components, their significance for cell function, as well as the principles on which are based methods for cell examination.			
<b>Learning Outcomes:</b> Upon completion of the course of this subject and passing the exam, student should be able to: 1. define and explain the terms from the field of cell, cell organelles and cell organization; 2. describe the basic methods for cell examination; 3. analyze the structure of cells and cell organelles; 4. establish a mutual connection between cell organelles as well as their influence on cell organization and function of systems of organs; 5. apply knowledge and skills in further studies in veterinary medicine, particularly in the field of pathological morphology, diagnosis, and others.			
<b>Syllabus:</b> <i>Theory</i> Introduction, Chemical and physico-chemical organization of cell, Methods of cell examination, Cell and extracellular matrix as basic part of multicellular organisms, Molecular mechanisms in cell biology <i>Practice</i> Chemical and physico-chemical organization of cell, Methods of cell examination, Cell, Extracellular matrix, Molecular mechanisms in cell biology			
<b>Required Reading:</b> 1. Pantić, V. (1997) <i>Biologija ćelije</i> . Univerzitet u Beogradu. 2. Чалдъков, Г. (1996) <i>Клетъчна биология</i> . Медицински факултет. Варна. 3. Eurell, J. A., Frappier, B. L.: <i>Dellmann's Textbook of Veterinary Medicine</i> . Blackwell Publishing, 2006. 4. Junqueira, L., C. Carneiro, J.: <i>Osnovi histologije</i> . Data Status, Beograd, 2005. 5. Петренко, А.Ю., Хунов, Ю.А., Иванов, З.Н. (2011) <i>Стволовые клетки</i> . Луганск „Пресс-экспресс“.			
<b>Weekly Contact Hours:</b> 4	<b>Lectures:</b> 2	<b>Practical work:</b> 2	
<b>Teaching Methods:</b> Lectures, Practical classes, Consultations, Research work			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	4	written and oral exam	56
Tests	2x20		