Course Unit Descriptor

Study Programme: Veterinary Medicine

Course Unit Title: Cytological aspects of regulation of selected cells and tissues

Course Unit Code: 3DVM2I20

Name of Lecturer(s): Gordana M. Uśćebrka, PhD, Full Professor; Slobodan Z. Stojanović, PhD, Associate Professor

Type and Level of Studies: Doctoral Academic Studies

Course Status (compulsory/elective): Elective

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: 6

Prerequisites: Scientific research methods, Courses of elective block 1

Course Aims:
Introducing students to the general characteristics and specific characteristics of selected cells in the examined tissues and their mutual regulation.

Learning Outcomes:
Students will gain the necessary knowledge of the histological and cytological features of the selected cells and tissues in different experimental conditions and periods of the life cycle. Special emphasis will be placed on those aspects of the cytological study of cells and tissues that students are selected according to their interests and directions of further development.

Syllabus:
Theory
Introducing students to the specific structure of cells and tissues at the light and electron microscopy of those organs for which students are especially interested in their work.
Practice
Students will be familiar with modern methods of detection of the development of certain structural components of the selected cells using cytological and histological preparations using a microscope.

Required Reading:
1. Grozdanovic - Radovanovic, J. (2000) Citology. Zavod za udzbenike Beograd.
2. Ross, M., Kaye, G., Pawlina, W. (2003) Histology with cell and molecular biology. Lippincott Williams & Wilkins, London
3. Kuehnel, W. (2003) Color atlas of cytology, histology and microscopic anatomy. Thieme, Stuttgart-New York.
4. Eurell, J.A. F Rappier, B, L. (2006) Dellmanns Textbook of Veterinary Histology. Sixth edition, Blackwell Publishing, London.
5. Selected papers related to course

Weekly Contact Hours: 6	**Lectures:** 3	**Practical work:** 3

Teaching Methods:
The method of oral presentation and discussion. Method of presentations, demonstrations, simulations and illustrations on the board and the application of computers with using the appropriate software. Practical laboratory student works with independent student work on a research microscope.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
student activity	5	Making of complete scientific work	25
seminar – practical part	20	Oral presentation scientific work results	30
seminar – presenting of results	20		