Course Unit Descriptor

Study Programme: Veterinary Medicine

Course Unit Title: Morphofunctional characteristics of selected tissues and organs

Course Unit Code: 3DVM1I11

Name of Lecturer(s): Gordana M. Uščebrka, PhD, Full Professor; Zdenko S. Kanački, Associate Professor; Slobodan Z. Stojanović, PhD, Associate Professor

Type and Level of Studies: Doctoral Academic Studies

Course Status (compulsory/elective): Elective

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: 6

Prerequisites: None

Course Aims:
Introduce students to the morphological, physiological and histological characteristics of the development of selected organs and tissue characteristics.

Learning Outcomes:
Students will gain the necessary knowledge of the morphological, physiological and histological features of the development of selected organs. Special emphasis will be placed on the study of morphofunctional characteristics of those organs which students are selected according to their interests and directions of further development.

Syllabus:
Theory
Characteristics of selected tissues, morphological, histological and physiological characteristics of the development of selected organs. Molecular and cellular physiology of selected tissues. Functional organization of tissues and organs. Physiological regulation (neural and humoral) of selected organs. Metabolic characteristics of tissues and organs.
Practice
Students will be familiar with modern methods of detection of the development of certain structural components of selected organs using anatomical and histological preparations. Practical and individual study research on introducing physiological characteristics and testing the functional state of the selected tissues and organs.

Required Reading:
1. Konig, H.E., Liebich, H.G. (2009) Veterinarska anatomija domaćih sisavaca. Naklada Slap. Zagreb.
2. Eurell, J. A., Frappier, B. L. (2006) Dellmann's Textbook of Veterinary Histology. Blackwell Publishing. London.
3. Sherwood, L., Klandorf, H., Yancey, P. (2005) Animal physiology – from genes to organisms. Thomson LARC, USA.
4. Sherwood, L. (2004) Human physiology – from cells to sistems. Thomson LARC, USA.
5. Warris, P.D. (2000) Meat Science. CABI Publishing. London.
6. Richardson, R.I., Mead, G.C. (1999) Poultry Meat Science. CABI Publishing. London.
7. 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		