Study program: Integrated academic studies of Dentistry
Type and level of the study program: integrated academic studies
Course title: Physiology (DII-PHYSL)

Teacher: Nada M. Naumović, Damir D. Lukač, Miodrag P. Drašin, Otto F. Barak, Dea I. Karaba Jakovljević, Jelena Ž. Popadić Gaćaša, Aleksandar V. Klaišna

Course status: compulsory

ECTS Credits: 20

Condition: -

Course aim
The main objectives of education in physiology are to introduce students to the basic functioning of organs and organ systems and their forms of organization in complex functional systems.

Expected outcome of the course:
Introduction with basic mechanisms of functioning of different systems of organs and aspects of organisation of regulatory mechanisms of complex homeostatic parameters in the functional systems. Introduction with complex neural and humoral regulatory mechanisms of different functional systems.

Students need to learn basic principles and rules of laboratory usage and to get acquainted with principal laboratory procedures. Also, students will be trained to perform daily laboratory routines by themselves. Students will learn to use animal models and animal tissue for demonstration of physiological processes. Students will be trained in detail for sampling and preparation of body liquids (blood, urine) as well as with the methods of basic laboratory analysis used in daily practice (sedimentation, hematocrit, red blood and white blood cell count, white blood cell formula, time of bleeding and coagulation, general and chemical characteristics of urine). Student will learn basic electrophysiological methods (ECG, EEG, EMNG, EP), and will be trained to perform the recordings and explain the basic parameters of the recordings. Student will learn to perform blood pressure measurement and heart auscultation. Also student will learn to determine the respiratory volumes and capacities.

Course description

Theoretical education

Practical education: Laboratory work, other forms of education, research related activities

Literature

Compulsory
Additional

Number of active classes
Lectures: 90  Practice: 60  Other types of teaching: Research related activities: -

Teaching methods: lectures; laboratory work.

Student activity assessment (maximally 100 points)

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<th>Pre-exam activities</th>
<th>points</th>
<th>Final exam</th>
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<tr>
<td>Lectures</td>
<td>15</td>
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<td>Practices</td>
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