SYLLABUS

1. Course title:

Physiology with functional anatomy of the CNS

2. Code:

3. Cycle of study:

1

4. ECTS credits:

4

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

none

7. Class restrictions:

First year students of the Department of Psychology

8. Duration / semester:

1 1

9. Weekly contact hours:

9.1. Lectures:	2
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	1

10. Faculty:

Humanities and Social Sciences

11. Department/study program:

Psychology

12. Lecturer:

13. Lecturer's e-mail:

14. Web site:

www.ff.unitz.ba

15. Course aims:

Introducing students to the basic mechanisms of general physiology, then the physiology of the nervous system, as well as the functional anatomy of the nervous system.

16. Learning outcomes:

After passing the course, students will be able to:- adequately use the literature in the field of physiology;- define the subject, tasks and goals of physiology;- use modern terminology, definitions and classifications;- understand the basics of functional anatomy of the nervous system;- understand the basic mechanisms of general physiology of the nervous system

17. Course content:

Physiological bases of psychic phenomena and behaviors within neuroscience, homeostasis. Basicdivisions of the nervous system: central and peripheral, somatic and vegetative.Functional anatomy of the nervous system;Nerve cell: structure, function, division (morphological and functional). Glia: types and function. Irritability: membrane potential, action potential, ionic basis of action potential, expansion, post-action potentials.Nerve synapses, neurotransmitters, neural groups; Somatic senses;Development of the nervous system: neurogenesis, migration, apoptosis. Nervous system structures (basic division). Cerebral circulation and its regulation, brain metabolism, barriers.Motor functions of the spinal cord, brainstem, cerebral cortex, cerebellum and basal ganglia. Intellectual functions of the brain; Waking and sleeping. Physiology of the autonomic nervous system.

18. Learning methods:

The following are preferred learning styles: visual style, auditory, verbal, social and independent.The most important methods of learning the subject are:
-Lectures with the use of multimedia tools, active learning techniques and with the active participation and discussions of students;
-Practical exercises in the laboratory of physiology.

19. Assessment methods:

Pre-examination activities include attending theoretical and practical classes as well as continuous testing of knowledge as follows:Colloquium in practical classesIncludes exercises. The student can achieve a maximum of 5 points, and the student must achieve at least 3 points to pass this colloquium.Final exam The final exam is realized by taking the Test and orally. (Physiology of the nervous system). Students who have passed the pre-examination activities have the right to access the final exam. The final exam is taken after the course

20. Assessment components:

The grade on the exam is based on the total number of points earned by the student by fulfilling pre-exam obligations and taking the exam, and according to the quality of acquired knowledge and skills and contains a maximum of 100 points, and is determined according to the following scoring scale:PRE-EXAMINATION OBLIGATIONSAttendance at lectures and exercises: 5 points (student may justifiably miss 20% of classes),Colloquium in practical classes: 5 points, Test 1: 40 points,FINAL EXAM: 25-50 points

21. Required reading list:

- Ljuca F (urednik) i sar. Fiziologija čovjeka. Tuzla: Eurografika, 2010.;
- Ljuca F, Nuhbegović S. Praktikum iz fiziologije sa radnom sveskom. Tuzla: OFF-SET, 2005.
- Stevanović, J. (2009). Fiziologija nervnog sistema. Ortomediks, Beograd

22. Web sources:

23. Applicable starting from the academic year:

2022/2023

24. Adopted in the Faculty/Academy session: