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|  | | | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine | | | | | | | | | | |  | | |
| ***Study program:medicine*** | | | | | | | | | | |
| Integrated academic studies | | | | | | II study year | | | | |
| **Full subject title** | | | PHYSIOLOGY | | | | | | | | | | | | | |
| **Department** | | | Department for preclinical subjects, Faculty of Medicine in Foca | | | | | | | | | | | | | |
| **Subject code** | | | | | | **Subject status** | | | | | **Semester** | | | **ECTS** | | |
|
| МЕ-01-1-014-3; МЕ-01-1-014-4 | | | | | | compulsory | | | | | III,IV | | | 19 | | |
| **Professor/ -s** | | Full professor. Zvezdana Kojic, PhD; Full professor. Sinisa Ristic, MD,PhD; associate. professor. Nenad Ponorac,MD, PhD, associate. professor. Milan Kovacevic, PhD, associate professor Pavle Randjelovic | | | | | | | | | | | | | | |
| **Associate/ -s** | | senior assistant. Suncica Bajcetic-Starovic, MD ; senior assistant Ivan Jojić, MD, senior assistant Darinka Dubovina MD, assistant Ljiljana Majstorovic-Pljevaljcic, MD, | | | | | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | | | **Individual student workload (in hours per semester)** | | | | | | | | **Coefficient of student workload So[[1]](#footnote-0)** | |
| **L** | **E** | | | | **SP** | | **L** | | | **E** | | **SP** | | | **Со** | |
| 5 | 4 | | | | 0 | | 5\*15\*1 | | | 4\*15\*1 | | 0\*15\*1 | | | 1 | |
| 5 | 5 | | | | 0 | | 5\*15\*1 | | | 5\*15\*1 | | 0\*15\*1 | | | 1 | |
| total teaching workload (in hours, per semester)  5\*15 + 4\*15 + 0\*15 = 135  5\*15 + 5\*15 + 0\*15 = 150 | | | | | | | | total student workload (in hours, per semester)  5\*15\*1 + 4\*15\*1 + 0\*15\*1 = 135  5\*15\*1 + 5\*15\*1 + 0\*15\*1 = 150 | | | | | | | | |
| Total subject workload (teaching + student): 285+285=570 hours | | | | | | | | | | | | | | | | |
| **Learning outcomes** | | understanding the function of the human organism and their mechanisms of regulation, familiarization with the basics of functional diagnostics | | | | | | | | | | | | | | |
| **Preconditions** | | Attended previous years, passed exams: Anatomy, Histology and Embryology, Human Genetics  Precondition for taking the exam: all year I exams passed | | | | | | | | | | | | | | |
| **Teaching methods** | | Theoretical lectures, theoretical seminars, practical activities - exercises | | | | | | | | | | | | | | |
| **Subject content per week** | | **Winter semestar**  **Theoretical lectures, theoretical seminars:**  1. homeostasis, cell physiology  2. excitabile tissue and muscles,  3. biophysics  4. biophysics  5. somatic sensibility,  6. the sense of sight  7. the sense of hearing, chemical senses,  8. motor system  9 motor system  10 associative cortex  11. limbic system  12. hypothalamus and ANS  13. theoretical seminars/colloqium – integratory physiology  14. blood and body fluids  15. blood and body fluids  **Practical activities – exercises:**  1. homeostasis, cell physiology  2. excitabile tissue and muscles,  3. excitabile tissue and muscles,  4. sensory receptors, somatic sensitivity  5. the sense of sight  6. the sense of hearing, chemical senses,  7 motor system  8. motor system  9. cognitive function  10 autonomic function  11 blood  12 blood  13 colloqium 1  14 colloqium 2  15 colloqium 3  **Summer semestar**  **Theoretical lectures, theoretical seminars:**  1. cardiovascular system  2. cardiovascular system  3. cardiovascular system  4. respiration  5. respiration  6. kidneys  7. pH, osmolarity  8. digestive system  9 energy, metabolism, nutrition, thermoregulation  10. endocrine system  11. reproduction  12 theoretical seminars/colloqium – integratory physiology  13 theoretical seminars/colloqium – integratory physiology  14. theoretical seminars/colloqium – integratory physiology  15 theoretical seminars/colloqium – integratory physiology  **Practical activities – exercises:**  1. cardiovascular system  2. cardiovascular system  3. cardiovascular system  4. respiration  5. respiration  6. kidneys, pH, osmolarity  7. digestive system  8. energy, metabolism, nutrition, thermoregulation  9. endocrine system  10 human reproduction  11 colloqium 4  12 colloqium 5  13 colloqium 6  14 colloqium 7  15 colloqium 8 | | | | | | | | | | | | | | |
| **Compulsory literature** | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title, Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | |
| Guyton AC,Hall JE | | | | Textbook of Medical Physiology. 13 th wd. WB Saunders Company | | | | | | | | | 2016 | |  | |
|  | | | | Kaplan Medical. USMLE Step 1 Lecture Notes 2021: Physiology | | | | | | | | | 2021 | |  | |
|  | | | | Laboratory notebook for practical course in Medical physiology . Belgrade, CIBID | | | | | | | | | 2010 | | Part one and two | |
| **Additional literature** | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title, Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | |
| Wiliams F Ganong | | | | Review of Medical Physiology. 25 th ed. The McGraw-Hill Companies | | | | | | | | |  | |  | |
| **Student responsibilities, types of student assessment and grading** | | **Grading policy**  For a positive final grade, the student must have passed all colloquia (8 of them), each with at least 3 points, as well as the final mcq test and essay each with a minimum of 15 points | | | | | | | | | | | | **Points** | | **Percentage** |
| Pre-exam activities | | | | | | | | | | | | | | |
| lecture/exercise attendance | | | | | | | | | | | | 5 | | 5% |
| seminar paper and/or case study – group work | | | | | | | | | | | | 5 | | 5% |
| test/colloquium – 8 x 5 | | | | | | | | | | | | 40 | | 40 |
|  | | | | | | | | | | | |  | |  |
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|
| Final exam | | | | | | | | | | | | | | |
| Final Test – mcq | | | | | | | | | | | | 25 | | 25% |
| Final assay test | | | | | | | | | | | | 25 | | 25% |
| TOTAL | | | | | | | | | | | | 100 | | 100 % |
| **Certification date** | | Septembar 4th th 2023 | | | | | | | | | | | | | | |

\* the number of necessary rows is added by using *insert mode*

1. Coefficient of student workload So is calculated as it follows:

   а) for the study programs not going through the licensing process: So = (total workload in semester for all the subjects 900 hrs – total teaching workload L+E in semester for all the subjects 870 hrs)/ total teaching workload L+E in semester for all the subjects \_\_\_\_\_ hrs = \_\_\_\_. Consult form content and its explanation.

   b) for the study programs going through the licensing process, it is necessary to use form content and its explanation. [↑](#footnote-ref-0)