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| Course ID: HODOB13 | Course name: HORMONES AND NEUROTRANSMITTERS IN THE HUMAN BODY | | |
| Cycle: III | Year: FIRST | Semester: I | ECTS credits: 7 |
| Course status: MANDATORY | | Total course hours: 45 Lectures: 30 Laboratory: 15 | |
| Teaching participants: | Teachers and associates with expertise in the field of biochemistry of hormones and other signal substances | | |
| Prerequisite for enrollment: | - | | |
| Course aims: | Familiarize the students with specific roles of hormones and neurotransmitters in the human body, the main chemical reactions playing at normal functions of the cell, tissues and organs, as well as in changed compromised pathochemical stages. | | |
| Thematic course units: | Basic types of hormones and their roles; Hormones and autoimmuno-pathologic stages; Algorithms of pathochemical stages in adrenal gland; corticosteroid hormones and catecholamines; Biochemistry and pathochemistry of insulin; Biochemistry and pathochemistry of thyroid gland; Basic types of neurotransmitters and their roles; Pathochemistry of neurotransmitters; Methods for quantification of hormones and neurotransmitters in human tissue and body fluids. | | |
| Teaching methodology: | Classroom lectures and laboratory exercises. | | |
| Assessment methods and grading system¹: | Grading criteria | | |
| | Criteria | Maximal score | Required score |
| | 1. Class attendance | | |
| | 2. Class activities | | |
| | 3. Seminars | 20 | 11 |
| | 4. Midterms | 40 | 22 |
| | 5. Final exam | 40 | 22 |
| | Total | 100 | 55 |
| | Scores and grading | | |
| | Score | Grade (B&H) | Grade (ECTS) |
| < 55 | 5 | F, FX | |
| 55–64 | 6 | E | |
| 65–74 | 7 | D | |
| 75–84 | 8 | C | |

¹ The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

| | 85-94 | 9 | B |
|--------------------------------|---|----|---|
| | 95-100 | 10 | A |
| Literature²: | <p>Mandatory literature:</p> <ol style="list-style-type: none"> 1. Baynes, J.W., Dominiczak M.H. (2005) <i>Medical Biochemistry</i>, 2nd ed., Elsevier Mosby. 2. Ludvik, B., Bischof, M., Kraupp, M., Luger, A. (2012) <i>Endokrinologie und Stoffwechse</i>, 6. Auflage, <p>Supplementary literature:</p> <ol style="list-style-type: none"> 1. Berg, J.M., Tymoczka, J.L., Stryer, L.W.H. (2005) <i>Biochemistry</i>, 5th ed., Freeman and Company/New York. | | |

² The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton