



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

| Course ID: HOB125 | Course name: FUNDAMENTALS OF ORGANIC CHEMISTRY | | | | |
|---------------------------------|--|--|---|-----------------|--|
| Cycle: FIRST | Year | : FIRST | Semester: II | ECTS credits: 6 | |
| Course status: MANDAT(| | DRY | Total course hours: 90 Lectures: 45 Laboratory: 45 | | |
| Teaching participants: | | Teachers and associates with expertise in the field to which the subject belongs | | | |
| Prerequisite for enrollment: | | - | | | |
| Course aims: | | Training students to understand and acquire the basic knowledge of major functional groups in organic chemistry in the framework of the classical approach to the classification of organic compounds, as well as the introduction to the basic elements of important biomolecules products of primary metabolism. | | | |
| Thematic course u | nits: | | | | |
| Learning outcomes | S: | Knowledge: Acquisition of basic knowledge about the reactions of organic compounds that are considered systematically according to the type of compounds, with reference to biologically important representatives in each class of compounds. Skills: Students will be able to design and perform basic | | | |

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| | experiments in the practicum of organic chemistry, as well as | | | | | |
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| | accurately record and | U | | | | |
| | experiments. | | | | | |
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| | Competences: Demonstrate a basic understanding of the | | | | | |
| | principles of organic chemistry for effective problem solving | | | | | |
| | in everyday life and in science using acquired skills. | | | | | |
| Teaching methodology: | Auditory lectures, laboratory exercises | | | | | |
| | Grading criteria | | | | | |
| | Criteria | Maximal score | Required score | | | |
| | 1. Class attendance | 5 | 3 | | | |
| | 2. Class activities | 10 | 5 | | | |
| | 3. Midterms | 45 | 25 | | | |
| | 4. Final exam | 40 | 22 | | | |
| Assessment methods | Total 100 55 Scores and grading | | | | | |
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| and grading system ¹ : | Score | Grade (B&H) | Grade (ECTS) | | | |
| | < 55 | <u> </u> | F, FX | | | |
| | 55-64 | 6 | E | | | |
| | 65-74 | 7 | D | | | |
| | 75-84 | 8 | C | | | |
| | 85-94 | 9 | В | | | |
| | 95-100 | 10 | А | | | |
| | Mandatory literature: | | | | | |
| | 1. Vollhardt, K.P.C., Schore, N.E. (2004) ORGANSKA HEMIJA: struktura | | | | | |
| | | <i>inkcija</i> , IV izdanje, Data status, Beograd | | | | |
| | 2. Maksimović, M., Ćavar, S., Vidic, D. (2009) PRAKTIKUM IZ OSNOVA | | | | | |
| | ORGANSKE HEMIJE, PMF, Sarajevo, 2009. | | | | | |
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| Literature ² : | Supplementary literature: 1. Pine, S.H., Hendrickson, J.B., Cram, D.J., Hammond, G.S. (2004) ORGANSKA KEMIJA, Školska knjiga – Zagreb. 2. Malvimanić M. Čapra Janićijanić A. Vidia D. Tanžagić A. Klana J. | | | | | |
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| | Maksimović, M., Čopra-Janićijević, A., Vidic, D., Topčagić, A., Klepo, L., Dizdar, M., Čulum D. (2019) OSNOVE ORGANSKE HEMIJE – Zbirka zadataka, PMF, Sarajevo. Maksimović, M. (2003) KARBOHIDROGENI - Zadaci i rješenja iz organske hemije, PMF, Sarajevo. | | | | | |
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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

 $^{^2}$ 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