



Form SP2

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## UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

| Course ID:<br>HNM302         |      | rse name: CHEMISTRY EDUCATION FOR SUSTAINABLE /ELOPMENT  |  |   |  |
|------------------------------|------|--|--|---|--|
| Cycle: FIRST                 | Year | : THIRD  | Semester: VI   | ECTS credits: 2   |  |
| Course status: ELECTIVE      |      | Total course hours: 30 Lectures: 30  |  | 30  |  |
| Teaching participants:       |      | Teachers and associates with expertise in the field to which the subject belongs   |  |   |  |
| Prerequisite for enrollment: |      | -  |  |   |  |
| Course aims:                 |      | Introduction to selected topics in chemistry education for contributing to the care for healthier environment and to the increase of quality of life |  |   |  |
| Thematic course units:       |      |  |  |   |  |
| Learning outcomes            | S:   | Discussive creating  | nable development<br>s the importance of e<br>ng a sustainable future; | nemistry education for education at all levels for ponsibility of each person |  |

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|                                 | for sustainability at local and regional level  |                          |                |  |  |
|---------------------------------|---|--------------------------|----------------|--|--|
|                                 | 101 040 041140 140 140 140 140 140 140 1  |                          |                |  |  |
|                                 | <ul><li>Skills:</li><li>Argue the importance of a holistic approach in sustainable development;</li></ul>   |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 | Competences:  |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 | <ul> <li>Propose action(s) at the local level or wider<br/>community in the context of contributing to the<br/>realization of sustainable development goals.</li> </ul> |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 | Oral presentation   |                          |                |  |  |
| Teaching methodology:           | Discussion  |                          |                |  |  |
|                                 | Research  |                          |                |  |  |
|                                 | Grading criteria  |                          |                |  |  |
|                                 | Criteria  | Maximal score            | Required score |  |  |
|                                 | 1. Class attendance   | 5                        | 3              |  |  |
|                                 | 2. Class activities   | 5                        | 3              |  |  |
|                                 | 3. Midterm  | 30                       | 17             |  |  |
|                                 | 4. Seminar  | 20                       | 10             |  |  |
|                                 | 5. Final exam   | 40                       | 22             |  |  |
| Assessment methods              | Total 100 55  |                          |                |  |  |
| and grading system1:            | Sco   | res and grading<br>Grade | Grade          |  |  |
|                                 | Score   | (B&H)                    | (ECTS)         |  |  |
|                                 | < 55  | 5                        | F, FX          |  |  |
|                                 | 55-64   | 6                        | E              |  |  |
|                                 | 65-74   | 7                        | D              |  |  |
|                                 | 75-84   | 8                        | С              |  |  |
|                                 | 85-94   | 9                        | В              |  |  |
|                                 | 95–100  | 10                       | A              |  |  |
|                                 | Mandatory literature  |                          |                |  |  |
|                                 |   |                          |                |  |  |
|                                 | 1. Vijeće ministara BiH (2010). <i>Strategija razvoja Bosne i</i>   |                          |                |  |  |
|                                 | ,   |                          |                |  |  |
| <br>  Literature <sup>2</sup> : | Hercegovine.  |                          |                |  |  |
| Literature <sup>2</sup> :       | 2. <a href="http://mft.gov.ba/bos/images/stories/medjunarodna">http://mft.gov.ba/bos/images/stories/medjunarodna</a>  |                          |                |  |  |
|                                 | %20saradnja/BOS-A-Strategija%20razvoja%20BiH.pdf  |                          |                |  |  |
|                                 | 3. http://www.bhas.ba/tematskibilteni/0kolis_2015_Bi  |                          |                |  |  |
|                                 | H.pdf   |                          |                |  |  |
|                                 | inpui   |                          |                |  |  |
|                                 | 1   |                          |                |  |  |

<sup>1</sup> 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

 $<sup>^2</sup>$  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

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## Supplementary literature:

- 1. Education for Sustainable Development http://www.unece.org/env/esd.html
- 2. Sleurs, W. Ed. (2008). *Competens for Education for Sustainable Development*
- 3. The concept of competencies in the context of Education for Sustainable Development (ESD)

  Dostupno na: <a href="http://esd-expert.net/assets/130314-Concept-Paper-ESD-Competencies.pdf">http://esd-expert.net/assets/130314-Concept-Paper-ESD-Competencies.pdf</a>
- 4. UNESCO (2002). Education for Sustainability From Rio to Johannesburg: Lessons learnt from a decade of commitment. Paris: UNESCO.
- 5. Wheeler, K. A., & Bijur, A. P. (Eds.). (2000). *Education for a sustainable future: A paradigm of hope for the 21st century*. New York: Kluwer Academic/Plenum Publishers.