Course ID: HODNM21	**Course name: EDUCATIONAL PLANNING AND CURRICULUM DEVELOPMENT IN CHEMISTRY EDUCATION**		
Cycle: THIRD	**Year: FIRST**	**Semester: II**	**ECTS credits: 10**
Course status: ELECTIVE		**Total course hours: 60** Lectures: 30 Laboratory: 30	
Teaching participants:	**Teachers and associates with expertise in the field to which the subject belongs**		
Prerequisite for enrollment:	-		
Course aims:	• Introduction to taxonomies of educational objectives and models of competence in the field of natural sciences • Developing curricular programming skills in the field of chemistry • Understanding the links and relationships between educational objectives, competency models, educational standards, and testing procedures		
Thematic course units:	1. The relationship between teaching and learning 2. Innovations in teaching planning 3. The process of determining teaching objectives 4. Classifications of teaching objectives 5. General taxonomies of educational objectives for the field of science education 6. Competences for teaching chemistry 7. Basics of the Qualifications Framework in Bosnia and Herzegovina 8. Curriculum creation, evaluation, and improvement 9. Links and relationships between educational standards and curricula		
Learning outcomes:	Knowledge: • Determine and classify educational objectives in chemistry teaching Skills: • Present the creation, evaluation, and improvement of the chemistry curriculum Competences: • Analyze the basics of the Qualifications Framework in BiH		
Teaching methodology:	Oral presentation Discussion		

<table>
<tr><td></td><td>Research</td></tr>
<tr><td>Assessment methods and grading system[1]:</td><td>
<table>
<tr><td colspan="3">Grading criteria</td></tr>
<tr><td>Criteria</td><td>Maximal score</td><td>Required score</td></tr>
<tr><td>1. Class attendance</td><td>-</td><td>-</td></tr>
<tr><td>2. Class activities</td><td>-</td><td>-</td></tr>
<tr><td>3. Midterm</td><td>20</td><td>11</td></tr>
<tr><td>4. Seminar</td><td>40</td><td>22</td></tr>
<tr><td>5. Final exam</td><td>40</td><td>22</td></tr>
<tr><td>Total</td><td>100</td><td>55</td></tr>
<tr><td colspan="3">Scores and grading</td></tr>
<tr><td>Score</td><td>Grade (B&H)</td><td>Grade (ECTS)</td></tr>
<tr><td>< 55</td><td>5</td><td>F, FX</td></tr>
<tr><td>55–64</td><td>6</td><td>E</td></tr>
<tr><td>65–74</td><td>7</td><td>D</td></tr>
<tr><td>75–84</td><td>8</td><td>C</td></tr>
<tr><td>85–94</td><td>9</td><td>B</td></tr>
<tr><td>95–100</td><td>10</td><td>A</td></tr>
</table>
</td></tr>
<tr><td>Literature[2]:</td><td>Mandatory literature:

1. Barke, H.-D., Harsch G. (2001). Chemiedidaktik Heute. Berlin Heidelberg: Springer-Verlag GmbH
2. Anderson, L.W., Krathwohl, D.R. (2001). Revised Bloom's Taxonomy: A Taxonomy for Learning, Teaching and Assessing. New York: Longman.
3. Marzano, R., Kendall, J.S. (2007). New Taxonomy of Educational Objectives. Thousand Oaks: Corwin Press.
4. SAA (2007). Standardi postignuća: Fizika, Hemija i Biologija-VIII razred. Sarajevo: Agencija za standarde i ocjenjivanje u obrazovanju za Federaciju BiH i RS.
5. Kelly, A.V. (2004). The Curriculum: Theory and Practice. Thousand Ouks: SAGE.
6. Osnove kvalifikacijskog okvira u Bosni i Hercegovini. (nd). Dostupno na http://www.mcp.gov.ba/doc/default.aspx?langTag=bs-BA
7. Grupa autora (2020). Ka obrazovanju koje pravi promjenu: Temeljne postavke za izradu predmetnih kurikuluma. Projekt: Kurikularnom reformom do kvalitetnog obrazovanja. Sarajevo, Misija OSCE-a u Bosni</td></tr>
</table>

[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

	i Hercegovini