



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ  
UNIVERSITY OF BANJA LUKA  
ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ  
FACULTY OF NATURAL SCIENCES AND MATHEMATICS



CHEMISTRY DEPARTMENT

FIRST CYCLE OF STUDY

Chemistry Education

|             |                                    |          |                      |      |
|-------------|------------------------------------|----------|----------------------|------|
| Course name | <b>Chemistry Didactics 1</b>       |          |                      |      |
| Course code | Course status                      | Semester | Hours of instruction | ECTS |
| 1C16HNS1112 | required                           | VII      | 2+3                  | 6    |
| Teacher(s)  | <b>Prof. Biljana Tomašević PhD</b> |          |                      |      |

|                        |                    |
|------------------------|--------------------|
| Prerequisite course(s) | Entry requirements |
| Pedagogy, Psychology   | Attended           |

**Course goals**

Students consider the necessary competencies of teachers in terms of defining the goals of teaching and planning teaching situations that enable students to achieve the intended outcomes (standards).

**Learning outcomes**

Students state the goals of teaching and the outcomes of student achievements (standards) for chemical concepts and contents provided by the curricula of chemistry for primary and secondary school (gymnasium).  
Students list teaching methods that enable the most efficient achievement of planned goals / outcomes of student achievement.

**Course content**

Subject and tasks of chemistry teaching methodology. Chemistry as a natural science and a subject  
Legislation in education and upbringing  
Natural science literacy, chemical literacy  
Goals, outcomes, standards of student achievement  
Competence standards for the teaching profession  
Curriculum. Pedagogical knowledge of chemistry content  
Work planning, annual, monthly work plan  
Methods and forms of teaching / learning

**Teaching methods**

Lectures, exercises

**Books and other learning materials**

D.Trivić: *Metodika nastave hemije 1*, Univerzitet u Beogradu – Hemijski fakultet, Beograd, 2007.  
D. Trivić, B. Tomašević: *Praktikum za vežbe iz Metodike nastave hemije 3 i 4*, Hemijski fakultet, Beograd, 2008.  
R. Nikolajević: *Metodika nastave hemije*, Zavod za izdavanje udžbenika i nastavnih sredstava, Beograd, 1999.  
I. Ivić, A. Pešikan, S. Antić: *Aktivno učenje 2*, Institut za psihologiju, Beograd, 2001.

**Course activities and grading method**

Activities include regular classes and the preparation of tasks that are assigned during classes. Activities in the exercises include the preparation of tasks that are set during the exercises, as well as participation in discussions during the theoretical exercises.

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|---------------------|----|------------|----|
| Activity (lectures) | 20 |            |    |
| Exercises           | 20 | Final exam | 60 |

**Additional course notes**

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| Name of the teacher who prepared this form | Biljana Tomašević |
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