Course: Ecology

Type and level of studies: UAS

Study program: Class Teacher Education, Kindergarten Teacher Education

Teacher(s): Jelena Mladenović

Language of instruction: English

ECTS: 6

Prerequisites: /

Semester: Summer semester

Course unit objective

Students will understand the basic laws and cause-effect relationships in the environment, the consequences of human behavior and the impact of human lifestyles on the environment locally and globally, as well as mechanisms and activities in the environmental protection system.

Learning outcomes

Students will be able to:
- Define basic environmental concepts;
- Explain cause-and-effect relationships in the environment;
- Recognize the causes and the consequences of endangering nature;
- Assess the importance of biodiversity for the survival of life on Earth;
- Propose activities in protection, restoration and improvement of the environment.

Course unit contents

Theoretical classes:

The concept and significance of ecology; Environment, habitat; Ecological factors; Adaptations; Population; Ecological community; Ecological niche; Producers, consumers and decomposers; Food chains and food networks; Ecosystems, structure and organization; Biomes; Biosphere, atmosphere, hydrosphere, lithosphere; Ecosystem diversity (terrestrial and aqueous); Anthropogenic ecosystems (city, park, agroecosystem); Energy sources; Pollution of air, water, soil; Biomonitoring; Diversity of the living world – biodiversity; Nature conservation, Natural Resources of Serbia.

Practical teaching:

Field research, observation of nature, ecological diary, demonstrations of practical works, activities in nature, ecological activities, natural corner in kindergarten, bonton in nature, ecological footprint, carbon footprint, integration of ecological contents in the activities of educational work with children.

Literature

Hans Ulrik Riisgard. General Ecology: Outline of contemporary ecology for university students, 2nd edition. Bookboon, 2018.
F. Stuart Chapin, III, Pamela A. Matson and Peter M.Vitousek. Principles of Terrestrial Ecosystem Ecology, Second Edition. Springer New York Dordrecht Heidelberg London, 2011.
Robert Steele. Environmental protection. UNESCO. 2010.
Global Biodiversity. UNEP. Secretariat of the Convention on Biological Diversity. Montreal, Canada. 2010. *Additional literature*
Selected educational films and content from the Internet

Number of active teaching hours:				**Other classes**
Lectures: 30	Seminar: 15		Independent work:	

Teaching methods:
Interactive classes (individual and in small groups), discussions, workshops, problem solving and implementation of research activities, presentations and mentoring.

Examination methods (maximum 100 points)			
Exam prerequisites	**No. of points:**	**Final exam**	**No. of points:**
Student's activity during lectures	10	oral examination	20
practical classes/tests	30	written examination	20
Seminars/homework	10	tests	

Project	10		
Other			

Grading system		
Grade	**Number of points**	**Description**
10	91 – 100	Excellent
9	81 – 90	Exceptionally good
8	71 – 80	Very good
7	61 – 70	Good
6	51 – 60	Passing
5	≤50	Failing