



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Okoljsko izobraževanje
Course title:	Environmental education

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Univerzitetni študijski program Biologija, 1. stopnja		2. ali 3.; 2nd or 3rd	3. ali 4. ali 5. Sli 6.; 3rd or 4th or 5th or 6th
Undergraduate university programme Biology, 1st degree			

Vrsta predmeta / Course type: Izbirni/Elective

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Terenske vaje Field work	Samost. delo Individ. work	ECTS
15	30				135	6

Nosilec predmeta / Lecturer: Andrej ŠORGO

Jeziki / Predavanja / Lectures: slovenski / slovene/ angleški / English
Languages: Vaje / Tutorial: slovenski / slovene / angleški / English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Ni pogojev
Prerequisites: No prerequisites

Vsebina:

- opredelitev okoljskega izobraževanja kot izobraževanja za trajnostni razvoj;
- velike in male teme okoljskega izobraževanja;
- zastavljanje ciljev;
- teorije izobraževanja;
- subjekti okoljskega izobraževanja;
- strategije okoljskega izobraževanja;
- načrtovanje okoljskih izobraževalnih aktivnosti;

Content (Syllabus outline):

- environmental education as education for sustainable development;
- big and small issues of environmental education;
- goals setting;
- educational theories;
- subjects of environmental education;
- strategies of environmental education;
- planning of environmental educational activities;

- didaktična načela okoljskega izobraževanja;
- priprava izobraževalnih delavnic;
- priprava izobraževalnih gradiv;
- priprava predstavitev;
- tabori in ekskurzije;
- mentorstvo dejavnostim;
- e-izobraževanje;
- ovrednotenje izobraževalnih aktivnosti;
- študije primerov

- didactic principles of environmental education;
- environmental workshops;
- environmental leaflets;
- how to prepare a presentation;
- summer-camps and excursions;
- mentorship to the activities;
- e-education;
- assesment of environmental activities;
- case studies

Temeljni literatura in viri / Readings:

Izbrana poglavja iz:

Handbook of Research on Science Education. Ed.Sandra K Abell, Norman G Lederman. 2007. Routledge.

International Handbook of Research on Environmental Education. 2012. Routledge

Cilji in kompetence:

Po opravljenem kursu bo študent-ka:

- sposoben načrtovati različne oblike dejavnosti povezanih z okoljskim izobraževanjem;
- sposoben organizirati in izvesti različne oblike dejavnosti povezanih z okoljskim izobraževanjem;
- sposoben ovrednotiti različne oblike dejavnosti povezanih z okoljskim izobraževanjem;

Objectives and competences:

After the course a student should:

- be able to plan different kinds of activities connected with environmental education;
- be able to organize and lead different kinds of activities connected with environmental education;
- be able to asses different kinds of activities connected with environmental education;

Predvideni študijski rezultati:

Znanje in razumevanje:

- temeljnih predpostavk okoljskega izobraževanja;
- načel okoljskega izobraževanja;
- načrtovanja ciljev;
- faz načrtovanja okoljskega izobraževanja;
- strategij okoljskega izobraževanja;
- Zahtev uspešnega izobraževanja;
- ovrednotenja kakovosti izvedenega izobraževanja;
- ovrednotenje znanja.

Intended learning outcomes:

Knowledge and understanding:

- Basics of environmental education;
- Principles of environmental education;
- Goal setting;
- Phases in planning of environmental educational activities;
- Strategies of environmental education;
- Basis of succesful environmental education;
- Assesment of quality of environmental education;
- Knowledge assesment.

Prenesljive/ključne spretnosti in drugi atributi:

Študent lahko znanja, strategije in spretnosti prenese v sorodne situacije

Transferable/Key Skills and other attributes:

Students can transfere gained knowledge, strategies and skills in other educational fields.

Metode poučevanja in učenja:

Predavanja;
Seminar;
Samostojno kritično preučevanje literature;
Individualne konzultacije pri pripravi seminarske naloge.

Learning and teaching methods:

Lectures;
Semminaire;
Individual critical reading of written sources;
Individual consultations by the semminaire preparation.

Delež (v %) /

Načini ocenjevanja:

Weight (in %) **Assessment:**

Seminar in predstavitev seminarja		Defended semminaire
Ustni izpit		Oral exam
Opravljen seminar je pogoj za pristop k ustnemu izpitu.	50%	Passed semminaire is prerequisite to attend oral exam.
	50%	

Reference nosilca / Lecturer's references:

ŠORGO, Andrej, KAMENŠEK, Asja. Implementation of a curriculum for environmental education as education for sustainable development in Slovenian upper secondary schools. Energy education science and technology. Part B, Social and educational studies, 2012, vol. 4, iss. 2, str. 1067-1076. [COBISS.SI-ID 18644232], [SNIP]

ŠORGO, Andrej, AMBROŽIČ-DOLINŠEK, Jana. Knowledge of, attitudes toward, and acceptance of genetically modified organisms among prospective teachers of biology, home economics, and grade school in Slovenia. Biochemistry and molecular biology education, ISSN 1470-8175. [Print ed.], 2010, vol. 38, no. 3, str. 141-150. <http://dx.doi.org/10.1002/bmb.20377>, doi: 10.1002/bmb.20377. [COBISS.SI-ID 17617416], [JCR, SNIP]

ŠORGO, Andrej, USAK, Muhammet, AYDOGDU, M., KELES, Ozgul, AMBROŽIČ-DOLINŠEK, Jana. Biology teaching in upper secondary schools: comparative study between Slovenia and Turkey. Energy education science and technology. Part B, Social and educational studies, 2011, vol. 3, iss. 3, str. 305-314. [COBISS.SI-ID 17941000], [SNIP]

ŠORGO, Andrej, USAK, Muhammet, KUBIATKO, Milan, FRANČOVIČOVA, Jana, PROKOP, Pavol, PUHEK, Miro, SKODA, Jiri, BAHAR, Mehmet. A cross-cultural study on freshmen's knowledge of genetics, evolution, and the nature of science. Journal of Baltic science education, ISSN 1648-3898, 2014, vol. 13, no. 1, str. 6-18. [COBISS.SI-ID 20421384], [JCR, SNIP]

OZDEN, M., USAK, Muhammet, ULKER, R., ŠORGO, Andrej. Effects of lesson preparation methods on prospective primary teachers pedagogical content knowledge. Journal of environmental protection and ecology, ISSN 1311-5065, 2013, vol. 14, no. 13A, str. 1432-1442. [COBISS.SI-ID 20196616], [JCR, SNIP]

