



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izbrana poglavja iz okoljskega izobraževanja
Course title:	Selected Chapters of Environmental Education

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Doktorski študij Ekološke znanosti, 3. stopnja		1. ali 2.; 1st or 2nd	1. 2. ali 3. ; 1st, 2nd or 3rd
Doctoral Study Ecological Sciences, 3rd degree			

Vrsta predmeta / Course type

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
5	5				140	5

Nosilec predmeta / Lecturer:

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

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

Vsebina:	Content (Syllabus outline):
Znanstveno-raziskovalno delo, ki se nanaša na: – predmet okoljskega izobraževanja; – družbeno-znanstvene teme – didaktična načela okoljskega izobraževanja; – načrtovanje okoljskih dejavnosti in operacionalizacija ciljev; – metode okoljskega izobraževanja; – oblike okoljskega izobraževanja; – problemsko zasnovano izobraževanje – uporaba učil in učnih sredstev; – IKT v okoljskem izobraževanju; – poučevanje v obšolskih dejavnostih;	Scientific and research work, connected with: – content of environmental education; – socio-scientific issues; – didactics principles of environmental education; – planning of environmental activities and operationalization of goals; – methods of environmental education – forms of environmental education – problem-based instruction; – usage of didactic materials and equipment; – ICT in environmental education; – teaching extracurricular activities;

- izobraževanje izven učilnice;
- varnost pri laboratorijskem in terenskem delu;
- akcijsko raziskovanje v okoljskem izobraževanju.
- preverjanje uspešnosti izvedenega izobraževanja
- predstavitve okoljskih vsebin.

- outdoor education;
- safety in laboratory and outdoor activities;
- action research in environmental education
- assessment of success in environmental education;
- presentations of environmental issues.

Temeljni literatura in viri / Readings:

Handbook of research on science education / edited by Sandra K. Abell and. Mahwah, N.J. : Lawrence Erlbaum Associates, 2007.
 International Handbook of Research on Environmental Education/ Edited by Robert B. Stevenson, Michael Brody, Justin Dillon, Arjen E.J. Wals. Routledge – 2012 – 592 pages

Cilji in kompetence:

Po zaključku predmeta bo študent usposobljen za:

- načrtovanje, pripravo in izvedbo klasične ter akcijske raziskave s področja okoljskega izobraževanja;
- predstaviti svoje seminarsko delo v ustni in pisni obliki.

Objectives and competences:

After completing the course student will be able to:

- planning, preparation and implementation of classical and action research from the field of environmental education;
- present semminaire work in oral and written form.

Predvideni študijski rezultati:

Znanje in razumevanje:

Poznavanje vsebine okoljskega izobraževanje;
 Razumevanje dilem okoljskega izobraževanja;
 Kritična analiza izbranih primerov;
 Izbor ustreznega znanstvenega instrumentarija za razrešitev raziskovalnih vprašanj.

Prenesljive/ključne spretnosti in drugi atributi:

Prenos pridobljenega vedenja ter raziskovalnih spretnosti na druga področja izobraževanja;

Intended learning outcomes:

Knowledge and understanding:

Knowledge about content of environmental education;
 Comprehension of dilemmas of environmental education;
 Critical analysis of selected topics.
 Selection of appropriate scientific inventory to solve research questions on environmental education.

Transferable/Key Skills and other attributes:

Transfer of knowledge and research skills on other fields of education.

Metode poučevanja in učenja:

Predavanja
 Seminar
 Individualno delo

Learning and teaching methods:

Lectures
 semminaire
 Individual work

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Seminarsko delo z zagovorom	100	Semminaire with defence

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](http://dx.doi.org/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]