Univerza v Mariboru

Fakulteta za naravoslovje in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	**Okoljski projekt v šoli**
Course title:	Environmental project in school

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Enovit magistrski študijski program druge stopnje Predmetni učitelj	**/**	**5**	**Poletni Summer**
Five-year master's degree program Subject Teacher	**/**		

Vrsta predmeta / Course type Izbirni / Elective

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
5	**25**				**60**	**3**

Nosilec predmeta / Lecturer: Andrej Šorgo

Jeziki / Languages:		
	Predavanja / Lectures:	**Slovenski /Slovenian Angleški/ English**
	Vaje / Tutorial:	

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisits:
/	/

Vsebina:	Content (Syllabus outline):
Številnih lokalnih (npr. ravnanje z odpadki, kmetijska praksa, onesnaževanje, gospodarjenje v zaščitenih območjih) okoljskih problemov ni mogoče razrešiti brez razumevanja soodvisnosti osebnih, družbenih, tehnoloških, naravnih in znanstvenih dejavnikov, kar presega meje posamezne discipline strukturirane v šolskem predmetu. Temeljni cilji predmeta je:	Many local (e. g. vaste management, farming practices, polution, management in protected areas) environmental problems can not be solved without understanding of combination of personal, societal, technological, and natural, scientific factors, what exceeds borders of a speciific discipline structured in school subject. Main goal of the subject is:

• naučiti študente izpeljati ciljno naravnan in medpredmetno zasnovan okoljski projekt v sklopu šolskih ali obšolskih dejavnosti.	• to teach students how to lead goal oriented and cross-disciplinary oriented environmental project in a framework of school and out of school activities.

Temeljni literatura in viri / Readings:

Izbrana poglavja iz:
Joseph Thatheyus. Textbook of environmental studies. Oxford (UK): Alpha Science International, 2011
Daniel B. Botkin, Edward A. Keller,,Environmental Science, International Student Version, Willey; 2011, ©2012
International Handbook of Research on Environmental Education. Eds. Robert B. Stevenson, Michael Brody, Justin Dillon, Arjen E.J. Wals; 2012. Routledge

Cilji in kompetence:	**Objectives and competences:**
Po opravljenem kurzu bo študent-ka: • sposoben izpeljati okoljski projekt;	After the course a student should: • be able to perform environmental project

Predvideni študijski rezultati:	**Intended learning outcomes:**
Znanje in razumevanje • večplastnosti okoljskih problemov; • postopkov za evalvacijo rešitev, ki so jih predlagali drugi. • postopkov projektnega vodenja	Knowledge and understanding: • of multi-facet nature of environmental problems; • of procedures how to evaluate proposed solutions by others. • Procedures of prject management.

Metode poučevanja in učenja:	**Learning and teaching methods:**
Predavanja, seminarji	Lectures, seminnaire

Načini ocenjevanja:	Delež (v %) / Weight (in %)	**Assessment:**
Seminarska naloga z zagovorom	**100%**	Seminair work with defence

Reference nosilca / Lecturer's references:

1. ŠORGO, Andrej, JAUŠOVEC, Norbert, JAUŠOVEC, Ksenija, PUHEK, Miro. The influence of intelligence and emotions on the acceptability of genetically modified organisms. *Electron. J. Biotechnol.*, 2012, vol. 15, no. 1, str. 1-11, doi: 10.2225/vol15-issue1-fulltext-1. [COBISS.SI-ID 18875912]

2. 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]

3. ŠORGO, Andrej, AMBROŽIČ-DOLINŠEK, Jana, USAK, Muhammet, ÖZEL, Murat. Knowledge about and acceptance of genetically modified organisms among pre-service teachers: a comparative study of Turkey and Slovenia. *Electron. J. Biotechnol.*, Jul. 2011, vol. 14, no. 4, str. 1-12. http://dx.doi.org/10.2225/vol14-issue4-fulltext-5, doi: 10.2225/vol14-issue4-fulltext-5. [COBISS.SI-ID 18530312]

4. ŠORGO, Andrej, AMBROŽIČ-DOLINŠEK, Jana, TOMAŽIČ, Iztok, JANŽEKOVIČ, Franc. Emotions expressed toward genetically modified organisms among secondary school students and pre-service teachers. *J. Balt. sci. educ.*, 2011, vol. 10, no. 1, str. 53-64. [COBISS.SI-ID 18312456]

5. ŠORGO, Andrej, AMBROŽIČ-DOLINŠEK, Jana. Knowlege 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*. [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]