



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izbrana poglavja iz humane ekologije
Course title:	Selected Topics in Human Ecology

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:
Languages: Vaje / Tutorial:

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

Poznavanje ekologije na ravni univerzitetnega programa

Prerequisites:

Knowledge of ecology and at graduate level

Vsebina:

Obravnavana so izbrana poglavja iz naslednjih sklopov.
Humana ekologija je interdisciplinarna znanost in veda o cloveku in njegovem okolju. Cloveštvo vpliva na svoje okolje s kulturo in delovanjem. Pri primitivnih ljudstvih prevzame cloveška vrsta vlogo dominantne vrste v lokalnih ekosistemih, v moderni tehnološki družbi pa smo postali ljudje del globalnega sistema proizvodnje in potrošnje ter s tem eden najvažnejših dejavnikov globalnih sprememb na Zemlji, ki pa se odražajo na vseh ravneh. Bistvo predmeta je interdisciplinarni

Content (Syllabus outline):

Selected topics in the following chapters are discussed.
Human ecology is an interdisciplinary study of the relationships between human species and the environment. Humans affect their environment through their cultures and their activities. In primitive societies, the human species dominated the local ecosystems, while in modern technological societies humans are part of a global system of production and consumption, and through these activities one of the major factors causing the global environmental

pristop in predstavitev odnosa cloveka do narave in okolja ter njegov vpliv v ekosferi. Podana so teoreticna izhodišča, pomembna za razumevanje cloveške vloge na Zemlji, odnos cloveka do narave in pomen okoljske etike, povezovanje in sodelovanje med disciplinami kot tudi nacrtovanje, sprejemanje odlocitev in ukrepov za doseganje trajnostnega razvoja kot osrednjega cilja razvite družbe. Diskusijsko je predstavljen pregled stanja na podrocju "humane ekologije" v Sloveniji, v Evropi in v svetu.

changes. The scope of the study is an interdisciplinary approach to and understanding of the human species in the context of the environmental characteristics, The complex humanenvironment interactions result in changing of the Earth. Students profit basic theoretical knowledge important in understanding the role of the human species in the ecosphere, interrelationship between humans and nature, the importance of environmental ethics, links and interaction with other disciplines as well as planning, decision-making towards achieving sustainable development, as a principal aim of the contemporary human society. An overview of the actual state of human ecology in Slovenia, in Europe and globally is discussed.

Temeljni literatura in viri / Readings:

- Böhringer, C., Lange, A. (Eds.), 2005: Applied research in environmental economics. Environment, Development and Sustainability, Vol. 31.
 - Kant, S., Berry, R.A. (Eds.), 2005: Economics, sustainability and natural resources – Economics of sustainable forest management. Environment, Development and Sustainability, Vol. 1.
 - Millennium Ecosystem Assessment, 2003: Ecosystems and Human Well-being: A Framework for Assessment, Island Press.
 - Millennium Ecosystem Assessment, 2005: Ecosystems and Human Well-being: Synthesis, Island Press.
 - Millennium Ecosystem Assessment, 2005: posamezna porocila (biotska raznovrstnost, voda in mokrišca, privatni sektor, clovekovo zdravje) na: <http://www.MAweb.org>
 - NAS, 2003: Frontiers in Agricultural Research: Food, Health, Environment and Communities, National Research Council, National Academy of Sciences, National Academies Press, Washington, DC.
 - Nelissen, N. et al, Eds. 1997: Classics in Environmental Studies, An Overview of Classic Texts in Environmental Studies, International Books.
 - Taylor, P.W. 1989: Respect for Nature, A Theory of Environmental Ethics, Studies in Moral Political, and Legal Philosophy, Princeton University Press.
- Izbrani clanki iz revij/selected papers from the journals: Environment, Development and Sustainability; itd./etc.

Cilji in kompetence:

- Študenti se podrobno seznanijo z interaktivnimi: biotskimi, socialnimi in kulturnimi značilnostmi cloveške vrste
- Podrobno poznajo osnovne principe delovanja cloveštva na okolje
- Podrobno spoznajo vzroke za razkorak med družbeno ekonomiko in okoljskim ravnovesjem
- Podrobno se seznanijo s pristopi, in ukrepi ter planiranjem trajnostnega razvoja

Objectives and competences:

- Students learn about the interactive: biotic, social and cultural characteristics of the humankind in detail
- Students in detail learn about the principal impacts of humans upon environment
- Students learn in detail about the relationships and interactions to understand the causes of the gap between the societal economics and the balance in the natural environment
- Students study in detail approaches, measures and planning for sustainable development

Predvideni študijski rezultati:**Znanje in razumevanje:**

- Študent dobi podroben pregled nad definicijami, pomenom in pomembnostjo delovanja cloveka na okolje na lokalni, regionalni in globalni ravni
- Študent podrobno razume naravne in antropogene dejavnike stabilnosti oz. nestabilnosti okolja
- Podrobno spozna osnovne mednarodne konvencije povezane s humano ekologijo
- Podrobno se seznanj z aktualnim stanjem na področju humane ekologije v Sloveniji, v Evropi in v svetu

Prenesljive/ključne spretnosti in drugi atributi:

- Študent usvoji podrobna vedenja in znanja za obnašanje v naravi in okolju ter za prepoznavanje obstoječega stanja okolja konkretne družbene skupnosti
- Zna podrobno primerjati obstoječe stanje z optimalnim v konkretnem okolju
- Zna se aktivno vključiti v interdisciplinarno iskanje rešitev za določene okoljske probleme v okolju

Metode poučevanja in učenja:

- Predavanja
- Seminar
- Individualno delo

Intended learning outcomes:**Knowledge and Understanding:**

- Students get a advanced overview of the definitions, meaning and importance of biodiversity on global, EU and national scales
- Students learn in detail about natural and anthropogenic driving forces of biodiversity change and gets insights into species biodiversity in different taxonomical groups in Slovenia
- Students learn in detail about international biodiversity related conventions and their role in decision making
- Students learn in detail about the actual state of human ecology in Slovenia, in Europe and in the World

Transferable/Key Skills and other attributes:

- Students capture detailed knowledge to understand the environmental conditions of a concrete society and the environment
- He/she can make a advanced comparison between the actual and the optimal conditions within a concrete environmental situation
- He/she can actively participate in resolving different environmental issues

Learning and teaching methods:

- Lectures
- Seminar
- Individual work

Načini ocenjevanja:

- Seminarska naloga in zagovor
- Pisni izpit

Delež (v %) /

Weight (in %)

Assessment:

- | | | |
|--|------|---------------------------------|
| | 50 % | • Seminar essay and its defense |
| | 50% | • Written exam |

Reference nosilca / Lecturer's references:

NOVAK, Tone, PERC, Matjaž, LIPOVŠEK DELAKORDA, Saška, JANŽEKovič, Franc. Duality of terrestrial subterranean fauna. International journal of speleology, ISSN 0392-6672, 2012, vol. 41, no. 2, str. 181-188, doi: 10.5038/1827-806X.41.2.5. [COBISS.SI-ID 19061512]

NOVAK, Tone, JANŽEKovič, Franc, LIPOVŠEK DELAKORDA, Saška. Contribution of non-troglobiotic terrestrial invertebrates to carbon input in hypogean habitats = Prispevek prezimujočih netroglobiontskih kopenskih nevretenčarjev k vnosu ogljika v podzemeljske habitate. Acta carsologica, ISSN 0583-6050, 2013, letn. 42, št. 2/3, str. 301-309, tabele. <http://ojs.zrc-sazu.si/carsologica/article/view/669/600>, doi: 10.3986/ac.v42i2-3.669. [COBISS.SI-ID 20238600]

LIPOVŠEK DELAKORDA, Saška, JANŽEKVIČ, Franc, NOVAK, Tone. Autophagic activity in the midgut gland of the overwintering harvestmen *Gyas annulatus* (Phalangidae, Opiliones). *Arthropod structure & development*, ISSN 1467-8039, 2014, str. 1-8, ilustr., doi: 10.1016/j.asd.2014.06.001. [COBISS.SI-ID 20696584]

NOVAK, Tone, ŠAJNA, Nina, ANTOLINC, Estera, LIPOVŠEK DELAKORDA, Saška, DEVETAK, Dušan, JANŽEKVIČ, Franc. Cold tolerance in terrestrial invertebrates inhabiting subterranean habitats. *International journal of speleology*, ISSN 0392-6672, 2014, vol. 43, no. 3, str. r39-r46. <http://dx.doi.org/10.5038/1827-806X.43.3.3>, doi: 10.5038/1827-806X.43.3.3. [COBISS.SI-ID 20595208]

NOVAK, Tone, KOZEL, Peter. *Hadzinia ferrani*, sp. n. (Opiliones: Nemastomatidae), a highly specialized troglotrophic harvestman from Slovenia. *Zootaxa*, ISSN 1175-5326, 2014, vol. 3841, no. 1, str. 135-145, ilustr. <http://biotaxa.org/Zootaxa/article/view/zootaxa.3841.1.8>, doi: 10.11646/zootaxa.3841.1.8. [COBISS.SI-ID 37430317]