

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Trajnostni razvoj in narava Slovenije
Course title:	Sustainable development and the nature of Slovenia

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Slovenski študiji III, 3. stopnja		1,2	1,2,3,4
Slovenian studies III, 3rd degree		1,2	1,2,3,4

Vrsta predmeta / Course type Izbirni / Optional

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija študija	Samost. delo Individ. work	ECTS
-	60	-	-	-	190	10

Nosilec predmeta / Lecturer: prof. dr. Lovrenc Lipej

Jeziki / Languages: Slovenščina/ Slovene	Predavanja /	slovenščina/Slovene
	Lectures:	angleščina/English
	Vaje / Tutorial:	slovenščina/Slovene
		angleščina/English

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

Gradivo bo dostopno v obliki predavanj PPT iz predavanj oziroma izročki iz predavanj. Izbrana literatura bo dostopna v spletni učilnici ali posredovana na skupinski elektronski poštni naslov. Dodatna in izbirna literatura za seminarske naloge bo predlagana na konzultacijah s predavateljem, dostopno v knjižnicah. Iz PPT predavanj bo izoblikovana skripta za interno uporabo.

Prerequisites:

The course material will be available in forms of PPT presentations of lectures or handouts form lectures. Chosen readings will be available in e-classroom or forwarded on joint e-mail. Additional readings for group and individual seminar work will be appointed upon consultations with lecturer, Readings also available in libraries. Based on PPT presentations a script for internal use will be formed

Vsebina:

Študentje bodo na predavanjih pridobili znanje o naravi Slovenije v povezavi s trajnostnim razvojem. Predavanja bodo strukturirana kot preplet bioloških, ekoloških, naravovarstvenih in

Content (Syllabus outline):

Students will attain general knowledge about nature Slovenia with particular reference to sustainable development. The lectures will be structured as intertwinement of natural sciences topics and applied

<p>aplikativnih znanj, ki so nujna za razumevanje pomena ohranjanja narave in trajnostnega ravnanja z njo.</p> <p>Izbrana poglavja:</p> <ul style="list-style-type: none"> • Ekosistemski servisi na kopnem in v morju, • Trajnostni razvoj in ohranjanje biodiverzitete • historični pregled interakcij človeka z naravo in trajnostni razvoj • Trajnostno upravljanje z naravnimi viri. Spoznavanje in razumevanje ključnih konceptov. • Nosilna sposobnost okolja. • Samoočiščevalna zmogljivost. Ekološki odtis. Ogljični odtis. Vodni odtis. • Trajnostni turizem • Podnebne spremembe in trajnostni razvoj • Netrajnostna raba virov. • Trajnostni pristopi pri reševanju okoljskih problemov 	<p>experiences (biology, ecology, nature conservation), which are of key importance for understanding the significance of preservation of natural heritage in the light of sustainable development.</p> <p>Selected topics</p> <ul style="list-style-type: none"> • Ecosystem services in terrestrial and marine ecosystem, • Sustainable development and conservation of biodiversity • human interactions with nature from a historical perspective and the concept of sustainable development • Sustainable development. Sustainable use of nature resources. Defining and understanding of the key definitions. • Carrying capacity of the environment. • Self-cleaning capacity. Ecological footprint. Carbon footprint. Water footprint. • Sustainable tourism • Climate change and sustainable tourism • Nonsustainable use of resources • Sustainable approaches to solve ecological problems
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Temeljni literatura in viri / Readings:

- AGARDY, M.T. (1994). Advances in marine conservation: the role of marine protected areas. *TREE* 9(7):267–70
- CARLTON, J.T. (1989). Man's role in changing the face of the ocean: biological invasions and implications for conservation of near-shore environments. *Conservation Biology* 3(3):265–71.
- GASTON, J. K., SPICER, J. I., 2004. *Biodiversity - An Introduction*. Second edition, Blackwell Publishing, 1-16, 91-180. ISBN 1-4051-1857-1
- GESAMP (1991). Reductin environmental impacts of coastal aquaculture. IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on Scientific Aspects of Marine Pollution. Reports and Studies (47):35 p. FAO, Rome, Italy.
- LIPEJ, Lovrenc (avtor, fotograf), KERMA, Simon (avtor, fotograf). Marine and coastal biodiversity and tourism in the Slovenian part of the Adriatic Sea: a neglected story?. V: FILIPOVIĆ, Dejan (ur.), et al. *Tourism in protected areas of nature in Serbia and Slovenia*. Belgrade: University of Belgrade, Faculty of Geography, 2017. Str. 101-112, ilustr. ISBN 978-86-6283-053-1. [COBISS.SI-ID [4370255](#)]
- LIPEJ, Lovrenc, ORLANDO-BONACA, Martina, MAVRIČ, Borut, VODOPIVEC, Martin, KRUŽIĆ, Petar. Monitoring of marine biodiversity in Strunjan nature reserve (Gulf of Trieste, Slovenia), with special

emphasis on climate change impacts on selected biological elements. V: VRANJEŠ, Matej (ur.), et al. *Climate change and management of protected areas : studies on biodiversity, visitor flows and energy efficiency*. 1st ed. Portorož: Soline Pridelava soli; Bled: Triglav National Park, 2013, str. 41-49. [COBISS.SI-ID [2938959](#)]

THIELE, Leslie Paul (2017): *Sustainability (Key concepts)*. 2nd Edition. Polity Press: Cambridge. Pp. 256.

- Zakon o varstvu okolja (ZVO-1) Ur.l. RS, št. 41/2004
- Zakon o ohranjanju narave. Uradni list Republike Slovenije, 56 (2002) (online http://zakonodaja.gov.si/rpsi/r00/predpis_ZAKO1600.html).

Cilji in kompetence:

Študenti:

- Se bodo seznanili s splošno definicijo osnovnih pojmov kot so narava, varstvo narave, biodiverziteteta, trajnostni razvoj)
- Seznanili s sodobno problematiko ohranjanja narave v evropskem in nacionalnem merilu, na podlagi poznavanja temeljnih zakonskih določil, predpisov in priporočil
- Se seznanili z nekaterimi tehnikami in metodami pridobivanja podatkov na regionalnem nivoju
- Se seznanili z nekaterimi primeri in problemi na regionalnem in nacionalnem nivoju
- Razumeli upravljanje z naravnim okoljem v luči trajnostnega razvoja

Objectives and competences:

Students:

- Will get acquainted with general definition, that regards the term of nature, nature conservation, biodiversity, sustainable development).
- Will get familiar with current problems of nurturing of natural heritage in European and national frame, based on knowledge on basic legal regulations, norms and recommendations
- Will get acquainted with some techniques and methods to achieve basic knowledge ☐ get acquainted with some cases and problems at regional and national basis
- Will understand the the management of natural environment in the light of sustainable development
- Will understand Nature management in the light of sustainable development planning.

Predvideni študijski rezultati:

<p>Znanje in razumevanje</p> <ul style="list-style-type: none"> • študentje bodo dojeli pomen narave (biodiverzitete) za človeka in razumeli koncept ekosistemskih storitev, • razumeli bodo osnovne pojme kot so nosilna sposobnost okolja. samoočiščevalna zmogljivost, ekološki odtis, ogljični odtis, vodni odtis. • študentje bodo znali podati primere učinkovitega varovanja narave v zavarovanih območjih v Sloveniji in Evropi • študentje bodo znali podati primere sodobnih trajnostnih tehnik, ki ohranjajo oziroma vzdržujejo biodiverzitetu • študenti bodo usmerjeni k inovativnosti in kreativnosti, • študenti bodo imeli priliko razvijati sposobnost analize, sinteze in predvidevanja rešitev ter posledic,

Intended learning outcomes:

<p>Knowledge and understanding</p> <ul style="list-style-type: none"> • Students will be able to understand the importance of biodiversity for humans and the concepts of ecosystem services, as well, • Students will be able to understand the key definitions such as carrying capacity of the environment, self-cleaning capacity, ecological footprint, carbon footprint, water footprint. ☒ • Students will be able to give examples of effective nature conservation in protected areas in Slovenia and Europe ☒ • Students will be able to give examples of modern sustainable techniques to maintain or support the biodiversity • Students will be encouraged to express their creativity and innovative ideas, • Students will have the possibility to develop their capability to analyze, synthesize and predict solutions and consequences
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Metode poučevanja in učenja:

<p>Oblike dela:</p> <p><input type="checkbox"/> Frontalna oblika poučevanja</p> <p><input type="checkbox"/> Samostojno delo študentov</p> <p><input type="checkbox"/> e-učenje</p> <p>Metode (načini) dela:</p> <p><input type="checkbox"/> Razlaga</p> <p><input type="checkbox"/> Razgovor/ diskusija/debata</p> <p><input type="checkbox"/> Proučevanje primera</p>
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Learning and teaching methods:

<p>Types of learning/teaching:</p> <p><input type="checkbox"/> Frontal teaching</p> <p><input type="checkbox"/> Independent students work</p> <p><input type="checkbox"/> e-learning</p> <hr/> <p>Teaching methods:</p> <p><input type="checkbox"/> Explanation</p> <p><input type="checkbox"/> Conversation/discussion/debate</p>

Case studies

Delež (v %) /

Weight (in %)

Assessment:**Načini ocenjevanja:**

Način (pisni izpit, ustno izpraševanje, naloge, projekt)	Delež (v %) / Weight (in %)	Type (examination, oral, coursework, project):
Ustni izpit	70%	Oral exam
Individualna seminarska naloga (oddaja)	30%	Individual project (delivery)

Reference nosilca / Lecturer's references:

LIPEJ, Lovrenc, ORLANDO-BONACA, Martina, MAKOVEC, Tihomir (avtor, fotograf). *Raziskovanje biodiverzitete v slovenskem morju*. Piran: Morska biološka postaja, Nacionalni inštitut za biologijo, 2004. 136 str., ilustr. ISBN 961-90363-5-2. [COBISS.SI-ID [219521536](#)]

LIPEJ, Lovrenc, DULČIĆ, Jakov. The current status of Adriatic fish biodiversity. V: GRIFFITHS, Huw I. (ur.), KRYŠTUFEK, Boris (ur.), REED, Jane M. (ur.). *Balkan biodiversity : pattern and process in the European hotspot*. Dordrecht; London: Kluwer Academic, 2004, str. 291-306, ilustr. [COBISS.SI-ID [1453647](#)]

LIPEJ, Lovrenc (avtor, prevajalec, fotograf), TURK, Robert (avtor, prevajalec), MAKOVEC, Tihomir (avtor, ilustrator, fotograf). *Ogrožene vrste in habitatni tipi v slovenskem morju = Endangered species and habitat types in the Slovenian sea*. Ljubljana: Zavod RS za varstvo narave, 2006. 264 str., ilustr. ISBN 961-91505-4-6. [COBISS.SI-ID [226668288](#)]

LIPEJ, Lovrenc (urednik, fotograf), KALIGARIČ, Mitja (urednik, recenzent), PIPENBAHER, Nataša (urednik). *Živi svet porečja Dragonje*. Maribor: Fakulteta za naravoslovje in matematiko, 2007. 44 str., ilustr. ISBN 978-961-6657-00-6. [COBISS.SI-ID [59642113](#)]

LIPEJ, Lovrenc, MAVRIČ, Borut, ORLANDO-BONACA, Martina. Recent changes in the Adriatic fish fauna - experiences from Slovenia = Recentne spremembe v jadranski ribji favni - izkušnje iz Slovenije. *Varstvo narave*, ISSN 0506-4252, 2009, vol 22, str. 91-96. [COBISS.SI-ID [1992527](#)]

LIPEJ, Lovrenc, DULČIĆ, Jakov. Checklist of the Adriatic sea fishes. *Zootaxa*, ISSN 1175-5334. [Spletna izd.], avg. 2010, št. 2589, str. 1-92. <http://www.mapress.com/zootaxa/2010/f/z02589p092f.pdf>. [COBISS.SI-ID [2501967](#)]

ZENETOS, A., LIPEJ, Lovrenc, et al. Alien species in the Mediterranean Sea by 2012. A contribution to the application of European Union's Marine strategy framework directive (MSFD) : Part 2. Introduction trends and pathways. *Mediterranean Marine Science*, ISSN 1108-393X, 2012, vol. 13, št. 2, str. 328-352. [COBISS.SI-ID [2720079](#)]

LIPEJ, Lovrenc (avtor, fotograf), KERMA, Simon. Stanje in ogroženost biodiverzitete slovenskega morja. V: OGRIN, Darko (ur.). *Geografija stika Slovenske Istre in Tržaškega zaliva*, (GeograFF, 12). 1. izd. Ljubljana: Znanstvena založba Filozofske fakultete, 2012, str. 159-176, ilustr. [COBISS.SI-ID [50590818](#)]

LIPEJ, Lovrenc, MAVRIČ, Borut, ORLANDO-BONACA, Martina, MALEJ, Alenka. State of the art of the marine non-indigenous flora and fauna in Slovenia. *Mediterranean Marine Science*, ISSN 1108-393X, 2012, vol 13, str. 243-249. [COBISS.SI-ID [2632783](#)]

LIPEJ, Lovrenc, ORLANDO-BONACA, Martina, MAVRIČ, Borut, VODOPIVEC, Martin, KRUŽIČ, Petar. Monitoring of marine biodiversity in Strunjan nature reserve (Gulf of Trieste, Slovenia), with special emphasis on climate change impacts on selected biological elements. V: VRANJEŠ, Matej (ur.), et al. *Climate change and management of protected areas : studies on biodiversity, visitor flows and energy efficiency*. 1st ed. Portorož: Soline Pridelava soli; Bled: Triglav National Park, 2013, str. 41-49. [COBISS.SI-ID [2938959](#)]

LIPEJ, Lovrenc (avtor, fotograf), KERMA, Simon (avtor, fotograf). Marine and coastal biodiversity and tourism in the Slovenian part of the Adriatic Sea: a neglected story?. V: FILIPOVIČ, Dejan (ur.), et al. *Tourism in protected areas of nature in Serbia and Slovenia*. Belgrade: University of Belgrade, Faculty of Geography, 2017. Str. 101-112, ilustr. ISBN 978-86-6283-053-1. [COBISS.SI-ID [4370255](#)]

LIPEJ, Lovrenc, ROGELJA, Manja, MAVRIČ, Borut. *Ocean v malem*. Piran: GEPŠ, 2019. VI, 221 str., ilustr. ISBN 978-961-94179-1-1. [COBISS.SI-ID [302821888](#)]

LIPEJ, Lovrenc, ROGELJA, Manja, MAVRIČ, Borut. *A miniature ocean*. Piran: GEPŠ, 2020. VI, 223 str., ilustr., zvd. ISBN 978-961-94179-2-8. [COBISS.SI-ID [303692544](#)]

KOVAČIČ, Marcelo, LIPEJ, Lovrenc, DULČIČ, Jakov. Evidence approach to checklists : critical revision of the checklist of the Adriatic Sea fishes. *Zootaxa*. 2020, vol. 4767, no. 1, str. 1-55, ilustr. ISSN 1175-5326. DOI: [10.11646/zootaxa.4767.1.1](#). [COBISS.SI-ID [14230019](#)], [SNIP]

Urednik

Annales. Series historia naturalis. Lipej, Lovrenc (odgovorni urednik 1994-, član uredniškega odbora 1994-). Koper: Zgodovinsko društvo za južno Primorsko, 1994-. ISSN 1408-533X.