

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

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| <b>Predmet:</b>      | VREDNOTENJE IN VARSTVO GEOGRAFSKEGA OKOLJA                |
| <b>Course title:</b> | EVALUATION AND PROTECTION OF THE GEOGRAPHICAL ENVIRONMENT |

| Študijski program in stopnja<br>Study programme and level   | Študijska smer<br>Study field | Letnik<br>Academic year | Semester<br>Semester |
|---|-------------------------------|-------------------------|----------------------|
| Varstvo okolja in ekotehnologije,<br>1. stopnja             |                               | 1.                      | 1.                   |
| Environmental Protection and<br>Eco-technologies, 1st level |                               | 1st                     | 1st                  |

**Vrsta predmeta / Course type** Obvezni predmet / Obligatory subject

**Univerzitetna koda predmeta / University course code:** VVGO

| Predavanja<br>Lectures | Seminar<br>Seminar | Sem. Vaje<br>Tutorial | Lab. vaje<br>Laboratory<br>work | Teren. vaje<br>Field work | Samost. delo<br>Individ. work | ECTS |
|------------------------|--------------------|-----------------------|---------------------------------|---------------------------|-------------------------------|------|
| 40                     |                    | 20                    |                                 |                           | 120                           | 5    |

**Nosilec predmeta / Lecturer:** doc. dr. Natalija Špeh / Assist. Prof. Dr. Natalija Špeh

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

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

Ni pogojev.

**Prerequisites:**

No prerequisites.

**Vsebina:**

1. Opredelitev geografskega okolja (viri, kapitali) in večplastnost pokrajinske strukture.
2. Kaj je degradacija geografskega okolja? Antropocentričnost, ekocentričnost.
3. Obremenjenost (pritiski) planetarnega ekosistema/sodobni planetarni in regionalni trendi, planetarni kazalci povečevanja antropogenih pritiskov, npr. urbanizacija.
4. Globalizacija in njene različne oblike/tipi.
5. Prostorski potenciali in (ne)skladnost različnih rab.
6. Tipizacija ekosistemov; stabilnost, dobrine in storitve.
7. Regionalizacija in degradirana območja v Sloveniji.
8. Šaleška dolina kot primer izboljšanja degradirane pokrajine.
9. Geografske metode terenskega dela.

**Content (Syllabus outline):**

1. Definition of the geographical environment (resources, capitals) and the multiplicity of the landscape structure.
2. What is degradation of the geographical environment? Anthropocentricity, ecocentricity.
3. The burden (pressures) of the planetary ecosystem / contemporary planetary and regional trends, planetary indicators of anthropogenic pressures, e.g. urbanization.
4. Globalization and its various forms / types.
5. Spatial potentials and (non) compliance of different uses.
6. Typisation of ecosystems; stability, goods and services.
7. Regionalization and degraded areas in Slovenia.
8. The Salek Valley as an example of the improved degraded landscape.

**Temeljni literatura in viri / Textbooks:**

1. Lah, A., 2008: Svetovno potovanje v drugačno prihodnost in leksikon gospodarjenja z okoljem. Založba Pivec.
2. Plut, D., 2004. Geografske metode preučevanja degradacije okolja. FF, Univerza v Ljubljani.
3. Plut, D. Geografija vodnih virov.
4. Worldwatch Institute, State of the World 2017, <http://www.worldwatch.org/>.
5. Leslie A., Duram: Environmental Geography: People and the Environment. 2018.
6. Gams, I. Kras v Sloveniji.

**Cilji in kompetence:**Predmetno specifični cilji in kompetence:

1. Študenti bodo spoznali večplastnost in soodvisnost strukture geografskega okolja, razumeli ključne sestavine in interakcije v degradiranem geografskem okolju.
2. Naučili se bodo vzročno-posledične perspektive pri opazovanju/obravnavanju geografskega okolja.

Splošne kompetence:

1. Sodelovanje pri uporabi terenskega (raziskovalnega) orodja po izbrani metodi.

**Objectives and competences:**Subject-specific objectives and competencies:

1. Students will learn about the multiplicity and interdependence of the structure of the geographical environment, understand the key ingredients and interactions in the degraded geographical environment.
2. Causal and consequential perspectives will be learned in the observation / treatment of the geographical environment.

General competencies:

1. Participation in the use of the field (research) tool according to the chosen method.

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

1. Po opravljenih obveznostih bodo študenti razumeli kompleksnost strukture geografskega okolja.
2. Razumeli bodo soodvisnost pokrajinskih sestavin in vzrokov za njihovo degradacijo/planetarna, regionalna, lokalna raven.

Prenesljive/ključne spretnosti in drugi atributi:

1. Študenti bodo usposabljeni za razumevanje podatkov, pridobljenih z analizo terenskega dela.

**Intended learning outcomes:**Knowledge and understanding:

1. After completing the obligations, students will understand the complexity of the structure of the geographical environment.
2. They will understand the interdependence of landscape components and the causes of their degradation/planet, regional, local level.

Transferable/Key Skills and other attributes:

1. Students will be trained to understand the data obtained through fieldwork analysis.

**Metode poučevanja in učenja:**Kombinirana oblika poučevanja/učenja:

1. Predavanja s študijami primera; komparativna analiza z diskusijo; seminar,
  2. Doživljajsko (izkustveno) poučevanje/terensko delo,
  3. Sodelovanje v projektnem delu kot aktivni obliki študija.
- Vključevanje tujih študij primerov; gostujočih predavateljev in Erasmus študentov.

**Learning and teaching methods:**Combined teaching / learning:

1. Lectures with the Case studies; comparative analysis with discussion; seminary,
2. Experiential (experiential) teaching / field work,
3. Participation in the project work as an active form of study.

Inclusion of foreign case studies; guest lecturers and Erasmus students.

| Načini ocenjevanja:   | Delež (v %) /<br>Weight (in %) | Assessment:   |
|---|--------------------------------|---|
| 1. Izdelava in zagovor seminarske vaje<br>2. Udeležba na terenskih vajah<br>3. Pisni izpit<br><br>Kriteriji ocenjevanja:<br>Zadostno (zd) 6: 60-67 %<br>Dobro (db) 7: 86-75 %<br>Prav dobro (pdb) 8: 76-83 %<br>Prav dobro (pdb) 9: 84-90 %<br>Odlično (odl) 10: 91 – 100 % |                                | 1. Creation and defense of the seminar work.<br>2. Participation in field exercises.<br>3. Written examination.<br><br>Evaluation Criteria:<br>Sufficient (D) : 60-67%<br>Good (C) : 86-75%<br>Very good (B) : 76-83%<br>Very good (B+) : 84-90%<br>Excellent (A) : 91 - 100% |

#### Materialni pogoji za izvedbo predmeta :

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| 1. Predavalnica z LCD projektorjem,<br>2. Računalniška učilnica (seminarske vaje) |
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#### Material conditions for subject realization:

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| 1. Lecture room with LCD projector,<br>2. Computer classroom (seminar work) |
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#### Obveznosti študentov:

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| 1. Izdelava in zagovor seminarske vaje<br>2. Udeležba na terenskih vajah<br>3. Pisni izpit<br><br>90-odstotna udeležba na seminarskih vajah ter opravljeni obveznosti 1. in 2. so predpogoji za pristop k pisnemu izpitu. |
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#### Student's commitments:

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| 1. Creation and defense of the seminar work<br>2. Participation in field exercises.<br>3. Written examination.<br><br>90% attendance at seminar exercises and obligations 1 and 2 are prerequisites for entering the written examination. |
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#### Reference nosilca predmeta:

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| (1) <u>Pedagoško delo:</u> <ul style="list-style-type: none"> <li>• nosilka in izvajalka predmetov na dodiplomskem študiju Varstvo okolja in ekotehnologije (Vrednotenje in varstvo geografskega okolja, Razvoj in upravljanje podeželja) ter podiplomskem študiju Varstvo okolja in ekotehnologije (Trajnostno ravnanje s pokrajinskimi viri)</li> <li>• Vsebinska zasnova in koordinacija dveh mednarodnih poletnih šol VŠVO (2011, 2012), soorganizacija produkcije SUSTainART, razstave v okviru mednarodnega programa Evropska prestolnica kulture 2012);</li> <li>• predavateljica na mednarodni poletni šoli Univerze v Oslu (UiO, 2014) ter na partnerski inštituciji v Portu (ISEP, 2010),</li> <li>• Vodenje senata in koordinacija pedagoškega procesa na VŠVO (2006-2013);</li> <li>• Soavtorstvo: <i>Navodila in smernice za izvedbo praktičnega usposabljanja na Visoki šoli za varstvo okolja</i>. Velenje: Visoka šola za varstvo okolja, 2010. 26 f. [COBISS.SI-ID <a href="#">1053654</a>]</li> </ul> |
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#### Lecturer's references:

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| (1) <u>Teaching:</u> <ul style="list-style-type: none"> <li>• Undergraduate Environmental protection and ecotechnologies study (subjects: Evaluation and protection of the geographical environment, Development of the countryside) and postgraduate Environmental protection and ecotechnologies study (Sustainable management of landscape resources)</li> <li>• Concept and coordination of two EPC international summer schools (2011, 2012), co-organizing SUSTainART production, exhibitions within the framework of the international program European Capital of Culture 2012);</li> <li>• Lecturer at the International Summer School (ISS) of the University of Oslo (UiO, 2014) and at the partner institution in Porto (ISEP, 2010)</li> <li>• Management of the EPC Senate and coordination of the pedagogical process (2006-2013);</li> <li>• Co-authorship: Instructions and guidelines for conducting practical training at the Environmental Protection College Velenje: Environmental Protection College, 2010. 26 f. [COBISS.SI-ID <a href="#">1053654</a>]</li> <li>• ŠPEH, Natalija, ŠTERBENK, Emil, PIANO, Saša. Integral approach and higher education level</li> </ul> |
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- ŠPEH, Natalija, ŠTERBENK, Emil, PIANO, Saša. Integralni pristop v visokošolskem izobraževanju (uspešna izkušnja na Visoki šoli za varstvo okolja Velenje) = Integral approach in higher education level (Successful experience at the Environmental Protection College Velenje). V: DUH, Matjaž (ur.), et al. *Ekologija v konceptu širših družbenih sprememb*. Maribor: Pedagoška fakulteta; Rakičan: RIS Dvorec. 2016, str. 285-297, ilustr. [COBISS.SI-ID [13897879](#)]
- Mentorstvo na diplomskem in podiplomskem študiju

(2) Raziskovalno delo:

Vodenje ali sodelovanje v mednarodnih, nacionalnih, regionalnih projektih:

- Podoktorski projekt: [Emisija CO2 in možnosti trajnostno sonaravne rabe neobnovljivih podzemnih virov](#)
  - Towards a monitoring information system for territorial attractiveness and policy management in South East Europe (Transnacionalni program JV Evropa)
  - PRAXIS: International Center for Entrepreneurship. Lifelong Learning Programme (EC)
  - *Razvojni prostorski potencial Škalskega in Velenjskega jezera,*
  - *Solčavsko kot priložnost za ustvarjanje zelenih delovnih mest: primer socialnega podjetja Farovski vrt v Solčavi,*
  - *Trajnostno zagotavljanje endogenih vodnih virov – Žegnan studenec,*
  - *Hrana za zdravje in delovna mesta,*
  - *Povečanje samooskrbe v SAŠA regiji: vzpostavitev tržnih poti,*
  - *CEEPUS in ERASMUS tromesečno gostovanje na Univerzi v Zadru; osredotočeno na morski ekosistem 1) onesnaženju morja z odpadki, skupaj z 2) znanstveno-raziskovalnim delom v zavarovanem območju NP Kornati.*

(3) Pomembnejša raziskovalna dela

- izdaja samostojne znanstvene monografije (2009, [COBISS.SI-ID [247696896](#)]).
- Uredništvo strokovne monografije VŠVO, (2015); *Šaleška dolina in nekateri okoljski vidiki*. Velenje: Visoka šola za varstvo okolja, 2015. 65 str., ilustr. ISBN 978-961-92734-7-0.

(Successful experience at the Environmental Protection College Velenje). V: DUH, Matjaž (eds.), Et al. *Ecology in the concept of wider social change*. Maribor: Faculty of Education; Rakičan: RIS Mansion. 2016, p. 285-297, ilustr. [COBISS.SI-ID 13897879]

- Mentorship in graduate and postgraduate diploma works, research groups (ISS) and placements.

(2) Research work:

Leading or participating in (inter)national, regional projects:

- Postdoctoral project: CO2 emissions and the potential of sustainable use of non-renewable underground sources,
- Towards a monitoring information system for territorial attractiveness and policy management in South East Europe (Transnational Program SE Europe)
- PRAXIS: International Center for Entrepreneurship. Lifelong Learning Program (EC),
- Development of the spatial potential of Lake Škale and Lake Velenje,
- Solčavsko as an opportunity to create green jobs: the example of the social enterprise Farovska gora in Solčava,
- Sustainable provision of endogenous water resources - Žegnan studenec,
- Food as an opportunity for the health and jobs,
- Increasing the self-sufficiency in SAŠA region: establishing marketing channels,
- CEEPUS and ERASMUS three-month hosting at the University of Zadar; focussed on the Sea ecosystem to 1) prove the sea pollution with waste, together with the 2) case of scientific/research work in the protected area of National Park Kornati.

(3) Significant research work:

- the publication of an independent scientific monograph (2009, [COBISS.SI-ID 247696896]).
- Editorial board of the professional monograph EPC, (2015); *Šaleška dolina and some environmental aspects*. Velenje: College of Environmental Protection, 2015. 65 pp., Ilustr. ISBN 978-961-92734-7-0.

[http://vsvo.si/images/pdf/2015032525\\_%C5%A0D\\_I\\_N\\_NEKATERI\\_OKOLJSKI\\_VIDIKI.pdf](http://vsvo.si/images/pdf/2015032525_%C5%A0D_I_N_NEKATERI_OKOLJSKI_VIDIKI.pdf). [COBISS.SI-ID 278133504]

- Textbook for foreign students: *From Ecological Footprint to Integral Model of Sustainable Evaluation*, Scholars' Press, 2019
- ŽIVKOVIĆ, Ljiljana, MARANI, Stefano, BERK, Sandi, DEŽMAN KETE, Vesna, TRAPANI, Francesco, ESPOSITO, Gianandrea, ŠPEH, Natalija, MILIĆ, Đorđe, ŽIVANOVIĆ, Tijana, BARBORIČ, Blaž. *Towards a monitoring information system for territorial attractiveness and policy management in South-East Europe = Establishing an information system for monitoring the attractiveness of areas and*

[http://vsvo.si/images/pdf/2015032525 %C5%AOD IN NEKATERI OKOLJSKI VIDIKI.pdf](http://vsvo.si/images/pdf/2015032525%20%20AOD%20IN%20NEKATERI%20OKOLJSKI%20VIDIKI.pdf). [COBISS.SI-ID 278133504]

- Učbenik za tuje študente: From Ecological Footprint to Integral Model of Sustainable Evaluation, Scholars' Press, 2019.
- ŽIVKOVIĆ, Ljiljana, MARANI, Stefano, BERK, Sandi, DEŽMAN KETE, Vesna, TRAPANI, Francesco, ESPOSITO, Gianandrea, ŠPEH, Natalija, MILIĆ, Đorđe, ŽIVANOVIĆ, Tijana, BARBORIČ, Blaž. Towards a monitoring information system for territorial attractiveness and policy management in South East Europe = Vzpostavitev informacijskega sistema za spremljanje privlačnosti območij in upravljanja politik v jugovzhodni Evropi. *Geodetski vestnik : glasilo Zveze geodetov Slovenije*, ISSN 0351-0271. [Tiskana izd.], 2015, letn. 59, št. 4, str. 752-766, ilustr. [http://www.geodetski-vestnik.com/59/4/gv59-4\\_zivkovic.pdf](http://www.geodetski-vestnik.com/59/4/gv59-4_zivkovic.pdf), doi: [10.15292/geodetski-vestnik.2015.04.752-766](https://doi.org/10.15292/geodetski-vestnik.2015.04.752-766). [COBISS.SI-ID 7317345]
- ŠPEH, Natalija. Students' career service - Environmental Protection College Velenje (EPC), Slovenia. V: ESCUDEIRO, Nuno (ur.), WELZER-DRUŽOVEC, Tatjana (ur.). *Project work and intership : theory and practice*. [S. l.]: Praxis. 2013, str. 287-306, ilustr. [COBISS.SI-ID [12108439](https://doi.org/10.15292/geodetski-vestnik.2015.04.752-766)]
- ŠPEH, Natalija, BARBORIČ, Blaž. Noise as an indicator of residential areas' quality in the municipality of Velenje, Slovenia = Buka kao pokazatelj kvalitete područja stanovanja u općini Velenje u Sloveniji. *Kartografija i geoinformacije : znanstveno stručno informativni časopis Hrvatskoga kartografskog društva*, ISSN 1333-896X, 2014, vol. 13, no. 21, str. 20-29. [http://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=204720](http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=204720). [COBISS.SI-ID [12928663](https://doi.org/10.15292/geodetski-vestnik.2015.04.752-766)]
- ŠPEH, Natalija, PIANO, Saša. The spatial development potential of Škale and Velenje Lake = Potencijal prostornoga razvoja Škalskog i Velenjskog jezera. *Hrvatski geografski*

governing policies in South-Eastern Europe. *Geodetski vestnik: Journal of the Slovenian Geodesy Association*, ISSN 0351-0271. [Printed Edition], 2015, year. 59, no. 4, p. 752-766, ilustr. [http://www.geodetski-vestnik.com/59/4/gv59-4\\_zivkovic.pdf](http://www.geodetski-vestnik.com/59/4/gv59-4_zivkovic.pdf), doi: [10.15292 / geodetski-vestnik.2015.04.752-766](https://doi.org/10.15292/geodetski-vestnik.2015.04.752-766). [COBISS.SI-ID 7317345]

- ŠPEH, Natalia. Students' career service - Environmental Protection College Velenje (EPC), Slovenia. V: ESCUDEIRO, Nuno (ed.), WELZER-DRUŽOVEC, Tatjana (ed.). *Project work and intership: theory and practice*. [S. l.]: Praxis. 2013, p. 287-306, ilustr. [COBISS.SI-ID 12108439]
- ŠPEH, Natalija, BARBORIČ, Blaz. Noise as a indicator of residential areas' quality in the municipality of Velenje, Slovenia = Noise as an indicator of the quality of housing in Velenje municipality in Slovenia. *Cartography and Geoinformation: a scientifically professional informative journal of the Croatian Cartographic Society*, ISSN 1333-896X, 2014, vol. 13, no. 21, p. 20-29. [http://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=204720](http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=204720). [COBISS.SI-ID 12928663]
- ŠPEH, Natalija, PIANO, Saša. The spatial development potential of Škale and Velenje Lake. *Croatian Geographical Bulletin*, ISSN 1331-5854, 2016, no. 2, vol. 78, p. 121-142, graph. impressions, zvd. [COBISS.SI-ID 63541602]

*glasnik*, ISSN 1331-5854, 2016, br. 2,  
vol. 78, str. 121-142, graf. prikazi, zvd.  
[COBISS.SI-ID [63541602](#)]