

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Družbena geografija krasa
Course title:	Social geography of karst

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Primerjalni študij idej in kultur (3. stopnja)	Humana geografija	Brez letnika	/
Comparative studies of ideas and cultures (3rd level)	Human geography	Not specified	/

Vrsta predmeta / Course type izbirni / elective

Univerzitetna koda predmeta / University course code: 95

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
90	60				180	6

Nosilec predmeta / Lecturer: doc. dr. Mateja Breg Valjavec (nosilka/course principal)
asist. dr. Daniela Ribeiro (asistentka/assitent)

Jeziki / Languages: Predavanja / Lectures: slovenski, angleški / Slovenian, English
Vaje / Tutorial: slovenski, angleški / Slovenian, English

<p>Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:</p> <p>Študent oz. študentka mora pred izpitom predstaviti seminarsko nalogo pred drugimi študenti in študentkami. Študenti in študentke bodo ocenjeni s skupno oceno za izpit (50 %) in seminarsko nalogo (50 %).</p>	<p>Prerequisites:</p> <p>Before the exam, students have to present a seminar work in front of other students. Students will be assessed by the overall rating for the exam (50 %) and the seminar work (50 %).</p>
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<p>Vsebina:</p> <ul style="list-style-type: none"> • Pomen kraških virov • Primeri izkoriščanja kraških virov • Oblikovanje kraških kulturnih pokrajin • Primeri vpliva človeka na kraške pokrajine (npr. degradacija vrtač, onesnaževanje jam in podzemne vode na konkretnih primerih iz Slovenije) • Pristopi za oceno degradacije kraške pokrajine • Kraški pojavi in trajnostni razvoj • Geodiverziteteta in geodediščina krasa • Razvoj trajnostnega turizma in geoturizma na krasu • Trajnostno upravljanje zavarovanih kraških 	<p>Content (Syllabus outline):</p> <ul style="list-style-type: none"> • Importance of karst resources • Examples of exploitation of karst resources • Formation of karst cultural landscapes • Examples of human impact on karst landscapes (e.g., degradation of dolines, cave and groundwater pollution presented on case studies from Slovenia) • Approaches to assess the disturbance (degradation) of karst landscapes • Karst features and sustainable development • Karst geodiversity and geoheritage • Development of sustainable tourism and geotourism in karst • - Sustainable management of karst
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območij

protected areas

Temeljni literatura in viri / Readings:

- Skripta
- van Beynen, P. E. (ed.) 2011. Karst Management. Springer: Dordrecht, New York.
- Ciglič, R., Hrvatin, M., Komac, B., Perko, D., 2012. Karst as a criterion for defining areas less suitable for agriculture. Acta geographica Slovenica, 52-1.
- Ford, D., Williams, P., 2007. Karst Hydrogeology and Geomorphology. Chichester, John Wiley & Sons.
- Gams, I, Gabrovec, M., 1999. Land use and human impact in Dinaric karst. International Journal of Speleology, 28-1.
- Gams, I., 2003. Kras v Sloveniji v prostoru in času. Ljubljana, Založba ZRC.
- Kaligarič, M., Ivajnsič, D., 2014. Vanishing landscape of the "classic" Karst: changed landscape identity and projections for the future. Landscape and Urban Planning, 132.
- Prelovšek, M., Zupan Hajna, N., 2011. Pressures and Protection of the Underground Karst – Cases from Slovenia and Croatia. Postojna, Inštitut za raziskovanje krasa ZRC SAZU.
- Unesco, 2010. Sustainability of the Karst Environment: Dinaric Karst and Other Karst Regions. Paris, United Nations Educational, Scientific and Cultural Organization.
- van Beynen, P., Townsend, K., 2005. A Disturbance Index for Karst Environments. Environmental Management, 36-1.
- Tičar, J., Tomić, N., Breg Valjavec, M., Zorn, M., Marković, S. B., Gavrilov, M. B. (2018). Speleotourism in Slovenia: balancing between mass tourism and geoheritage protection. Open geosciences 10-1.

Cilji in kompetence:

- uporaba znanstvenih metod pri reševanju strokovnih problemov
- komunikacija in obvladovanje strokovne terminologije s področja krasa
- poznavanje in razumevanje pojmov iz zgodovine posegov človeka na krasu (kulturna pokrajina)
- sposobnost izdelave ocene stanja kraške pokrajine
- razumevanje pomena krasa za človeka
- sposobnost razumevanja ranljivosti kraškega podzemlja, vodonosnikov z vidika načrtovanja vodooskrbe
- uporabo pridobljenega znanja v praksi

Objectives and competences:

- the use of scientific methods in solving professional problems
- communication and mastery of karst terminology
- knowledge and understanding of concepts from the history of human karst interventions (cultural landscape)
- the ability to make an assessment of the state of the karst region
- understanding the importance of karst for man
- ability to understand the vulnerability of the karst underground, aquifers in terms of water supply planning
- the use of acquired knowledge in practice

Predvideni študijski rezultati:

- poznati osnove kraških sistemov (naravnih in družbeno-ekonomskih)
- prepoznati vrste kraških virov in njihov pomen za družbeno-gospodarski razvoj
- razumevanje antropogenih vplivov na kraške pokrajine

Intended learning outcomes:

- know the fundamentals of karst systems (natural and socio-economic)
- recognise different karst resources and their role for socio-economic development
- understand the human impacts on karst landscapes

- je sposoben kritično in kreativno razmišljati, ko ocenjuje potencialne vplive na kraško okolje

- qualifies to think critically and creatively when evaluating anthropogenic disturbance to karst

Metode poučevanja in učenja:

Oblike dela:

- Frontalna oblika poučevanja
- Delo v manjših skupinah oz. v dvojicah
- Samostojno delo študentov
- e-izobraževanje

Metode (načini) dela:

- Razlaga
- Razgovor/ diskusija/debata
- Delo z besedilom
- Proučevanje primera
- Igra vlog
- Druge vrste nastopov študentov
- Reševanje nalog
- »Terenske vaje« (npr. obiski podjetij)
- Vključevanje gostov iz prakse

Learning and teaching methods:

Types of learning/teaching:

- Frontal teaching
- Work in smaller groups or pair work
- Independent students work
- e-learning

Teaching methods:

- Explanation
- Conversation/discussion/debate
- Work with texts
- Case studies
- Roleplay
- Different presentation
- Solving exercises
- Field work (e.g. company visits)
- Inviting guests from companies

Načini ocenjevanja:

Krajši pisni izdelki
Daljši pisni izdelki
Javni nastop ali predstavitev
Končno ocenjevanje (pisni/ustni izpit)
Drugo

Delež (v %) /
Weight (in %)

/
40
10
50
/

Assessment:

Short written assignments
Long written assignments
Presentations
Final examination (written/oral)
Other

Reference nosilca / Lecturer's references:

- Bátori, Z., Vojtkó, A., Keppel, G., Tölgyesi, C., Čarni, A., Zorn, M., Farkas, T., Erdős, L., Kiss, P. J., Módra, G., Breg valjavec, M. (2019). Anthropogenic disturbances alter the conservation value of karst dolines. *Biodiversity and conservation* 29-2.
- Tomić, N., Antić, A., Marković, S. B., Đorđević, T., Zorn, M., Breg Valjavec, M. (2019). Exploring the potential for speleotourism development in Eastern Serbia. *Geoheritage* 11-2.
- Ribeiro, D., Šmid Hribar, M. (2019). Assessment of land-use changes and their impacts on ecosystem services in two Slovenian rural landscapes. *Acta Geographica Slovenica* 59-2.
- Breg Valjavec, M., Zega, M., Cernatič-Gregorič, A. (2019). "Zasuli so vrtačo": --- ali kaj nam pomeni dediščina Krasa?. *Geografski obzornik: časopis za geografsko vzgojo in izobraževanje* 66-1.
- Breg Valjavec, M., Zorn, M., Čarni, A. (2018). Human-induced land degradation and biodiversity of Classical Karst landscape: on the example of enclosed karst depressions (dolines). *Land degradation & development* 29-10.
- Breg Valjavec, M., Ciglič, R., Oštir, K., Ribeiro, D. (2018). Modelling habitats in karst landscape by integrating remote sensing and topography data. *Open geosciences* 10-1.
- Tičar, J., Tomić, N., Breg Valjavec, M., Zorn, M., Marković, S. B., Gavrilov, M. B. (2018).

Speleotourism in Slovenia: balancing between mass tourism and geoheritage protection. *Open geosciences* 10-1.

- Breg Valjavec, M., Zorn, M., Čarni, A. (2018). Bioindication of human-induced soil degradation in enclosed karst depressions (dolines) using Ellenberg indicator values (Classical Karst, Slovenia). *Science of the total environment* 640/641.
- Tičar, J., Ribeiro, D. (2018). Identification of cave pollution in the Kras Plateau, Slovenia. *Natura Sloveniae* 20-2.
- Breg Valjavec, M., Ribeiro, D., Čarni, A. (2017). Vegetation as the bioindicator of human-induced degradation in karst landscape : case study of waste-filled dolines = Vegetacija kot bioindikator antropogene degradacije kraške pokrajine : primer z odpadki zapolnjene vrtače. *Acta carsologica* 46-1.
- Ribeiro, D., Zorn, M., Čarni, A. (2017). Kazalniki za spremljanje trajnostnega razvoja kraških območij. V: *Prostor, regija, razvoj*. Založba ZRC: Ljubljana.
- Ribeiro, D. (2017). Impact of landscape features on land use and regional development in karst areas: a case study of Bela krajina : doctoral thesis. Univerza v Ljubljani: Ljubljana.
- Ribeiro, D., Tičar, J. (2017). The problematics of cave pollution in Bela krajina. *Natura Sloveniae* 19-1.