



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	<b>Krajinska ekologija</b>
Subject Title:	<b>Landscape Ecology</b>

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija in ekologija z naravovarstvom /Biology and Ecology with Nature Conservation	Ekologija z naravovarstvom /Ecology with Nature Conservation	1	2

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Lab. work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30	15			30	165	8

Nosilec predmeta / Lecturer:

Jeziki / Predavanja / Lecture:   
Languages: Vaje / Tutorial:

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

Vsebina:	Contents (Syllabus outline):
<p>Krajina z ekološke perspektive. Fizični dejavniki ki oblikujejo krajino. Struktura krajine: prostorski vzorci in koridorji. Velikost in oblika, časovna komponenta. Mreža in heterogenost krajinskih vzorcev. Metapopulacije in fragmentacija krajinskih elementov. Vloga človeka v krajini. Pretok med elementi krajine. Delovanje krajine kot makro-sistema. Spremembe v krajini. Upravljanje s krajino.</p>	<p>Landscape from the ecological perspective. Physical factors, shaping the landscape. Landscape structure: spatial patches and corridors. Size and shape of patches, temporal component. Network and heterogeneity of landscape patches. Human role in the landscape. Flows between landscape elements. Functioning of landscape as macro-system. Changes in landscape. Landscape management.</p>

**Temeljni študijski viri / Textbooks:**

- Farina, A., 1998. Principles and Methods in Landscape Ecology, Chapman & Hall, London.
- Forman R. T. T., 1995. Land Mosaics, Cambridge University Press, Cambridge.
- Forman R. T. T., M. Godron, 1986: Landscape Ecology. John Wiley & Sons.
- Gergel, S. E., M. G. Turner, 2002: Learning landscape ecology. Springer Verlag.
- Hansen, A. J., F. Di Castri, 1992. Landscape Boundaries, Springer, New York.
- Jianguo L.. W. W. Taylor, 2002. Integrating landscape ecology into natural resource management. Cambridge University press.
- Pignatti, S., 1994: Ecologia del Paesaggio. UTET, Roma.
- Turner, M. G., R. H. Gardner, R. V. O'Neil, 2001: Landscape ecology in theory and praxis. Springer

Verlag.

**Cilji:**

- Študenti se seznanijo z osnovami krajinske ekologije in z gonilnimi silami, ki oblikujejo krajino
- Študenti se seznanijo z elementi krajine, vzorci in procesi v krajini ter z osnovami upravljanja s krajino

**Objectives:**

- Students get insights of principles of landscape ecology and of driving forces, which affect and create the landscape
- Students learn the landscape elements, patterns and processes within the landscape and get knowledge about the principles of landscape management

**Predvideni študijski rezultati:**

Znanje in razumevanje:

- Študenti razumejo osnove zgradbe in delovanja krajine kot makro-sistema
- Študenti razumejo spremembe v krajini in poznajo osnove upravljanja s krajino

Prenesljive/ključne spretnosti in drugi atributi:

- Študenti usvojijo nekaj glavnih metod in praks v krajinski ekologiji in varovanju krajine

**Intended learning outcomes:**

Knowledge and Understanding:

- Students understand the principal structure and functioning of the landscape as macro-system
- Students understand changes in landscape and get insights of the principles of landscape management

Transferable/Key Skills and other attributes:

- Student capture the most important methods and practices in landscape ecology and landscape conservation

**Metode poučevanja in učenja:**

- Predavanja
- Terenske vaje

**Learning and teaching methods:**

- Lectures
- Field work

**Načini ocenjevanja:**

Delež (v %) /  
Weight (in %)

**Assessment:**

- Kolokvij iz terenskega dela
- Seminaraska naloga in zagovor
- Ustni izpit

30  
30  
40

- Partial exam of field work
- Seminar essay and its defense
- Oral exam

**Materialni pogoji za izvedbo predmeta :**

- *Multimedijska predavalnica*

**Material conditions for subject realization**

- *Lecture hall for multimedia presentation*

**Obveznosti študentov:**

*(pisni, ustni izpit, naloge, projekti)*

- Kolokvij iz terenskega dela
- Seminaraska naloga in zagovor
- Ustni izpit

**Students' commitments:**

*(written, oral examination, coursework, projects):*

- Partial exam of field work
- Seminar essay and its defense
- Oral exam