



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Izbrana poglavja iz krajinske ekologije
Subject Title:	Selected Topics in Landscape Ecology

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Doktorski študij Ekološke znanosti / Doctoral Study Ecological Sciences		Izbirni 1 ali 2 ali 3	2 ali 3 ali 4 ali 5

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
5	5				140	5

Nosilec predmeta / Lecturer:

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

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

Poznavanje splošne botanike in ekologije na ravni univerzitetnega programa

Prerequisites:

Knowledge of general botany and ecology at graduate level

Vsebina:

Obravnavana so izbrana poglavja iz naslednjih sklopov.

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.

Contents (Syllabus outline):

Selected topics in the following chapters are discussed.

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.

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

Objectives:

- Students get advanced insights of principles of landscape ecology and of driving forces, which affect and create the landscape
- Students learn in detail 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 podrobno razumejo osnove zgradbe in delovanja krajine kot makro-sistema
- Študenti podrobno razumejo spremembe v krajini in poznajo osnove upravljanja s krajino

Prenesljive/ključne spretnosti in drugi atributi:

- Študenti usvojijo izbrane metode in prakse v krajinski ekologiji in varovanju krajine

Intended learning outcomes:

Knowledge and Understanding:

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

Transferable/Key Skills and other attributes:

- Student capture selected 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:

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

Delež (v %) /
Weight (in %)30 %
30 %
40 %**Assessment:**

- 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
- Seminarska naloga in zagovor
- Ustni izpit

Students' commitments:*(written, oral examination, coursework, projects):*

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