

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Habitatni tipi in natura 2000
Course title:	Habitat Types and Natura 2000

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Ekologija z naravovarstvom 1. St.		3	5
Ecology with Nature Conservation , Bch		3rd	5th

Vrsta predmeta / Course type	Obvezni / Compulsory
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Univerzitetna koda predmeta / University course code:	
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Terenske vaje Field work	Samost. delo Individ. work	ECTS
30	15			15	90	5

Nosilec predmeta / Lecturer:	Mitja KALIGARIČ
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Jeziki / Languages:	Predavanja / Lectures: Slovenski / Slovene
	Vaje / Tutorial: Slovenski / Slovene

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

Jih ni.	No.
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Vsebina: _____ **Content (Syllabus outline):** _____

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| <ul style="list-style-type: none"> • Opredelitev habitatov v kontekstu ekoloških znanosti. • Opredelitev in praktični pomen habitatnih tipov. • Biogeografske regije Evrope. • Biogeografska razdelitev Slovenije. • V EU utemeljene klasifikacije habitatov/biotopov: CORINE biotopi, EUNIS, PHYSIS, Nemške klasifikacije. • Tipologija evropskih in slovenskih habitatnih tipov: naravni habitat. • Tipologija evropskih in slovenskih habitatnih tipov: antropogeni habitat. • FFH habitat (EU direktive in konvencije, ki se nanašajo na habitatne tipe). • Ogroženi habitat v EU in Sloveniji. • Omrežje Natura 2000 – zgodovinsko ozadje in evropska zakonodaja. • Mreža območij Natura 2000 v Evropi. • Ohranjanje ogroženih rastlinskih in živalskih vrst v območjih Natura 2000. • Kratek pregled kvalifikacijskih kriterijev za omrežje Natura 2000. • Natura 2000 v Sloveniji – kratek pregled. • Sobivanje človeka in narave v območjih Natura 2000. | <ul style="list-style-type: none"> • Definition of habitats in the context of ecological science. • Definition and practical meaning of habitat types • Biogeographic regions in Europe. • Biogeographical divisions of Slovenia. • EU-based classifications of habitats/biotopes: CORINE biotopes, EUNIS, PHYSIS, German classifications. • Typology of European and Slovenian habitat types: natural habitat types. • Typology of European and Slovenian types: anthropogenic habitat types. • FFH habitats (EU directives and conventions regarding habitat types). • Endangered habitats in EU and Slovenia. • Natura 2000 network – historical background and European legislation. • Natura 2000 network throughout Europe. • Conservation of endangered plant and animal species within the Natura 2000 areas. • Short review of qualification criteria for the Natura 2000 network. • Natura 2000 in Slovenia: short overview. • Coexistence of man and nature within the Natura 2000 areas. |
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Temeljni literatura in viri / Readings:

Obvezna literatura:

- Broom, G., 1999: Socio-economic Benefits from Natura 2000. The Stationery Office Books.
- Čušin, B. (ur.), 2004: Natura 2000 v Sloveniji. Založba ZRC SAZU, Ljubljana.

Priporočena literatura:

- Davies, C., D. Moos, 1998: Eunis HABITAT CLASSIFICATION. Europaean Environmental Agency.
- Europaean TC on nature conservation. Institute of Terrestrial Ecology Monks Wood, Huntingdon.
- Devilliers, P., J. Devilliers-Terchuren, 1996: A classification of palearctic habitats.
- Nature and Environment 78, Council of Europe, Strasbourg.
- Dierschke, H., 1994: Pflanzensoziologie. Verlag Eugen Ulmer Stuttgart.
- Dobson, A. P., 1996: Conservation and Biodiversity. New York, Scientific American Library.
- Ellenberg, H., 1996: Vegetation Mitteleuropas mit dem Alpen. 5. izd., Verlag Eugen Ulmer Stuttgart.
- Gellermann, M., 2003: Natura 2000: Europaeisches Habitatschutzrecht und seine Durchfuehrung in der Bundesrepublik Deutschland. Springer.

- Jogan, N., M. Kaligarič, M., I. Leskovar, A. Seliškar, J. Dobravec, 2004: Habitatni tipi Slovenije HTS 2004. Tipologija. Agencija republike Slovenije za okolje. Ljubljana.
 - Mertz, P., 2000: Pflanzengeellschaften Mitteleuropas und der Alpen. Ecomed.
 - Nelson, J. G, R. Safarin (Eds.), 1996: National Parks and Protected Areas: Keystones to Conservation and Sustainable Development. Springer Verlag.
 - Pott, R., 1996: Biotoptypen. Ulmer Verlag, Stuttgart.
 - Skoberne, P., 2004: Pregled mednarodnih organizacij in predpisov s področja varstva narave 2005, priročnik, inačica 9.1, Ministrstvo za okolje in prostor, Ljubljana.
- Thompson, G., 2002: Natura 2000: a partnership for nature. Kluwer Law International

Cilji in kompetence:

- Študenti se seznanijo z definicijami habitatov, habitatnih tipov in s palearktično klasifikacijo habitatnih tipov.
- Seznanijo se z biogeografskimi delitvami EU in Slovenije ter različnimi klasifikacijami habitatov/biotopov: CORINE, EUNIS, PHYSIS.
- Spoznajo glavne habitatne tipe v Evropi in Sloveniji, tako naravne kot antropogene.
- Spoznajo ogrožene habitatne tipe v EU (FFH HT) in v Sloveniji.
- Obvladati pomen Natura 2000 kot skupne evropske perspektive.
- Habitatna in »Ptičja« direktiva.
- Seznanitev s podrobno vsebino območij Natura 2000 v Sloveniji.
- Usposobitev za so-organiziranje sobivanja človekovega razvoja in hkrati varovanja vrst in habitatov v omrežju Natura 2000.

Objectives and competences:

- Students learn the definitions of habitats and habitat types. They learn the palearctic typology of habitat types.
- Students learn the biogeographic divisions of EU and Slovenia. They get insights of different classifications of habitats/biotopes: CORINE, PHYSIS, EUNIS.
- Students learn the most important habitat types in Europe and Slovenia, both natural and anthropogenic.
- Students learn about endangered habitat types in EU (FFH HT) and in Slovenia.
- To understand the meaning and purpose of protected areas.
- To learn about Natura 2000 network as common European perspective.
- »Habitat directive« and »Bird« directive.
- To get a short overview on the content of Natura 2000 in Slovenia.
- To be able to co-organize coexistance of human developement, and protecton of species and their habitats within the Natura 2000 Network.

Predvideni študijski rezultati:

Znanje in razumevanje:

- Študent dobi pregled nad definicijami, tipologijo in razširjenostjo habitatnih tipov v EU in Sloveniji.
- Nauči se glavne habitatne tipe Slovenije, tako naravne kot antropogene.
- Seznani se z ogroženimi habitatnimi tipi v EU in Sloveniji.

Intended learning outcomes:

Knowledge and understanding:

- Students should get an overview on the definitions, typologies and distribution of habitat types within the EU and Slovenia.
- He/she learns the most important habitat types in Slovenia, both anthropogenic and natural.

- Študent dobi pregled nad zakonodajo, ki predpisuje omrežje Natura 2000 v EU in v Sloveniji.
- Je sposoben razumeti pomen in vsebino območij Natura 2000 in sodelovati pri reševanju naravovarstvenega managementa in vprašanjih sobivanja v območjih Natura 2000.

Prenesljive/ključne spremnosti in drugi atributi:

- Študent usvoji znanje o habitatnih tipih, posebej še o ogroženih habitatnih tipih, ki so kriterij za definiranje območij Natura 2000.
- Študent usvoji nekaj glavnih metod in dobi prakso v upravljanju zavarovanih območij.

- He/she gets knowledge about endangered habitat types in Slovenia and EU.
- Student should get an overview on legislation, regulating the Natura 2000 network in EU and Slovenia.
- He/she should be able to understand the content and meaning of the Natura 2000 sites and to be capable to cooperate in conservational management and co-existence issues within the Natura 2000 areas.

Transferable/Key Skills and other attributes:

- Student capture the most important knowledge about habitat types, especially endangered habitat types, which represent the criteria for the Natura 2000 network definition.
- Student captures the most important methods and practices management within protected areas.

Metode poučevanja in učenja:

- Predavanja
- Seminar
- Terenske vaje

Learning and teaching methods:

- Lectures
- Seminar
- Field work

Delež (v %) /

Načini ocenjevanja:

Weight (in %)

Assessment:

Praktični kolokvij	30	Practical examination
Seminarska naloga – pisna	20	Seminar exercise - written
Ustni izpit	50	Oral examination

Reference nosilca / Lecturer's references:

IVAJNŠIČ, Danijel, KALIGARIČ, Mitja, FANTINATO, Edy, DEL VECCHIO, Silva, BUFFA, Gabriella. The fate of coastal habitats in the Venice Lagoon from the sea level rise perspective. Applied geography, ISSN 0143-6228. [Print ed.], 2018, vol. 98, str. 34-42, ilustr., doi: [10.1016/j.apgeog.2018.07.005](https://doi.org/10.1016/j.apgeog.2018.07.005). [COBISS.SI-ID [24006152](#)]

ŠAJNA, Nina, ADAMLJE, Kristijan, KALIGARIČ, Mitja. *Dittrichia graveolens* - how does soil salinity determine distribution, morphology, and reproductive potential?. Annales : anali za istrske in

mediteranske študije, Series historia naturalis, ISSN 1408-533X. [Tiskana izd.], 2017, letn. 27, št. 1, str. 7-12, ilustr., doi: [10.19233/ASHN.2017.02](https://doi.org/10.19233/ASHN.2017.02). [COBISS.SI-ID [23274760](#)]

KOŽUH, Aljaž, KALIGARIČ, Mitja, IVAJNŠIČ, Danijel. Potential distribution of silver fir (*Abies alba*) in south-eastern Alpine and Dinaric phytogeographic regions of Slovenia and Croatia in the light of climate change. *Annales : anali za istrske in mediteranske študije, Series historia naturalis*, ISSN 1408-533X. [Tiskana izd.], 2017, letn. 27, št. 2, str. 97-106, ilustr., doi: [10.19233/ASHN.2017.12](https://doi.org/10.19233/ASHN.2017.12). [COBISS.SI-ID [24005896](#)]

PAUŠIČ, Igor, KALIGARIČ, Mitja, BAKAN, Branko. Late seasonal mowing enhances central European *Spiranthes spiralis* (L.) Chevall. (Orchidaceae) population viability. *Botany Letters*, ISSN 2381-8107, 2017, str. 1-12, ilustr., doi: [10.1080/23818107.2017.1396495](https://doi.org/10.1080/23818107.2017.1396495). [COBISS.SI-ID [23469064](#)]

PAUŠIČ, Igor, KALIGARIČ, Mitja. Dry grassland land use treatment regime explains the occurrence of the green winged orchid, *Anacamptis morio* (L.) R. M. Bateman, Pridgeon & M. W. Chase in the Goričko Nature Park, NE Slovenia = Režim upravljanja s suhimi travnišči določa pojavnost navadne kukavice, *Anacamptis morio* (L.) R. M. Bateman, Pridgeon & M. W. Chase v Krajinskem parku Goričko, SV Slovenija. *Folia biologica et geologica*, ISSN 1855-7996. [Tiskana izd.], 2015, letn. 56, št. 3, str. 137-148, ilustr. [COBISS.SI-ID [22114312](#)]