



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:

Ex situ varovanje rastlin

Subject Title:

Ex situ Conservation of Plants

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija in ekologija z naravovarstvom / Biology and ecology with nature conservation		Izbirni	

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		15	15	135	7

Nosilec predmeta / Lecturer:

Jože BAVCON

Jeziki /

Predavanja / Lecture: slovenski / Slovenian

Languages:

Vaje / Tutorial: slovenski / Slovenian

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

Prerequisites:

Vsebina:

Contents (Syllabus outline):

Rastline prispevajo zelo pomemben delež k biodiverziteti, vendar so mnoge med njimi podvržene izginjanju. Ex situ varstvo rastlinskih vrst omogoča vzgajanje ogroženih vrst na nadomestnih rastiščih.

Ex situ zbirke so eden najvažnejših virov rastlinskega materiala za restavracijo degradiranih habitatov.

Proučevanje rastlin in njihovih populacij na nadomestnih rastiščih omogoča ugotavljanje pogojev za uspešno reintrodukcijo.

Po ocenah je danes le okrog 20 % ogroženih rastlinskih vrst v ex situ zbirkah. Cilj je, da bi se delež do leta 2010 povečal na 60 %.

Študentje se seznanijo z zgodovino varovanja rastlinskih vrst v svetu in pri nas.

Seznanijo se z konvencijami in direktivami, ki se nanašajo na ex situ varovanje.

Seznanijo se z metodami varovanja vrst.

Spoznajo nekaj pozitivnih primerov varovanja v svetu in pri nas.

Seznanijo se s temeljnimi smernicami in ustanovami, ki so za varstvo biotske diverzitet.

V praktičnem delu spoznajo konkretne probleme varovanja vrst na nadomestnih rastiščih.

Plants share a very important part of the biodiversity, while a large amount of them are on the way of extinction. Ex situ conservation enables to grow plants in ex situ habitats.

Ex situ collections are one of the most important pool of plant material for restoration of damaged and degraded habitats.

Study of plants and their populations in replacement habitats enables to establish terms for a successful reintroduction.

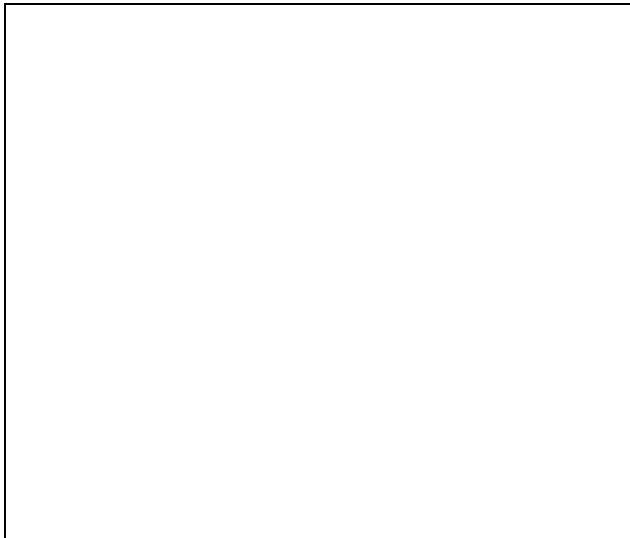
Recently, about 20% of threatened plant species are estimated to be found in ex situ collections. Until 2010, the aim of botanists is to increase this ratio to 60%.

Students learn about history of plant species conservation in the world and in our country. They learn conventions and directives concerning ex situ conservation.

They learn methods of species conservation.

They learn about some successful cases of ex situ conservation in the world and in our country.

They understand the basic aims, and get acquainted of institutions competent in biota conservation.



In practice, students get acquainted of selected conservational problems in ex situ habitats.

Temeljni študijski viri / Textbooks:

- Heywood, V., 1995: Global Biodiversity Assessment, Cambridge: UNEP, Cambridge University Press.
- Jackson, W. P. S., L. A. Sutherland, 2000: International Agenda for Botanic Gardens in Conservation. BGCI, UK.
- Meffe, G. K., C. RONALD, 1994: Principles of Conservation Biology. Sinauer Ass. Sunderland.
- Ministrstvo za okolje in prostor RS, 2002: Strategija ohranjanja biotske raznovrstnosti v Sloveniji.
- Primack, R. B., 1993. Essentials of Conservation Biology. Sinauer, Sunderland, MA.
- Wraber, T., P. Skoberne, 1989: Rdeči seznam ogroženih praprotnic in semenk SR Slovenije. Varstvo narave 14-15. Ljubljana.
- Young J. A., C.G. Young, 1986: Seeds of Wildland Plants. Timber Press Portland Oregon.

Cilji:

Študenti:

- razumejo metode in načina ohranjanja rastlinskih vrst
- spoznajo se s problematiko ogroženih vrst
- spoznajo različne pristope ex situ ohranjanja vrst v svetu
- spoznajo pomen ustanov za ex situ varstvo rastlinskih vrst in njihove pristope k problematiki

Objectives:

Students:

- Understand methods and different ways of conserving plants.
- Get acquainted of problems concerning threatened plants
- Get acquainted of different ways of ex situ species conservation in the World
- Get acquainted of institutions dealing with the ex situ conservation, and their ways of solving problems

Predvideni študijski rezultati:

- Naučijo se razlikovati ogroženo stanje vrst od neogroženega
- Zanje predvideti ustrezen način ohranjanja vrste
- Znano predvideti posege in njih trajanje za ex situ varstvo
- Znano svetovati pri izboru metod dela
- Znano najti ustrezne ustrove, ki se v svetu ukvarjajo s posamezno problematiko

Prenesljive/ključne spretnosti in drugi atributi:

- Zanje uporabiti ustrezne metode za ex situ varovanje

Intended learning outcomes:

- They can distinguish threatened species from the not threatened ones
- They can forecast an appropriate way of species conservation
- They can forecast ways of ex situ conservation, and estimate their duration
- They can advise suitable methods
- They can find institutions dealing with selected topics of ex situ conservation in the World

Transferable/Key Skills and other attributes:

- They can use suitable methods for ex situ conservation

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Metode poučevanja in učenja:

Learning and teaching methods:

- Predavanja
- Laboratorijske vaje
- Seminar

- Lectures
- Laboratory exercises
- Seminar

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

- | | |
|---|----------------|
| <ul style="list-style-type: none"> • Praktični kolokvij • Seminaraska naloga • Pisni izpit | 30
30
40 |
|---|----------------|

- Practical partial exam
- Seminar essay
- Written examination

Materialni pogoji za izvedbo predmeta :

- *Multimedijska predavalnica*
- *Botanični vrtovi*

Material conditions for subject realization

- *Lecture hall for multimedia presentation*
- *Botanical gardens*

Obveznosti študentov:

- (pisni, ustni izpit, naloge, projekti)*
- Praktični kolokvij
 - Seminaraska naloga
 - Pisni izpit

Students' commitments:

- (written, oral examination, coursework, projects):*
- Practical partial exam
 - Seminar essay
 - Written examination