



UNIVERSITÀ DI PISA

PLANT CONSERVATION

GIANNI BEDINI

Anno accademico

2017/18

CdS

CONSERVAZIONE ED EVOLUZIONE

Codice

382EE

CFU

6

Moduli	Settore/i	Tipo	Ore	Docente/i
PLANT CONSERVATION	BIO/02	LEZIONI	56	GIANNI BEDINI

Obiettivi di apprendimento

Conoscenze

theoretical and practical bases for monitoring plant diversity; current theory and practice of plant diversity conservation; advantages and disadvantages of protected areas, seed banks and botanic gardens as conservation tools; international and local organisations involved in in situ and ex situ plant conservation; main international and national agreements and legislation about plant conservation.

Modalità di verifica delle conoscenze

Final oral exam

Capacità

students will learn how to monitor plant diversity, what are the best practices in plant conservation, what programmes on what species can be carried out in protected areas, botanic gardens and seed banks, what institutions should be involved in conservation projects, and what are the legal obligations for plant conservation.

Modalità di verifica delle capacità

Final oral exam

Comportamenti

Become aware that plant conservation provides an interface between academic teaching and conservation-oriented institutions like protected areas and botanic gardens.

Modalità di verifica dei comportamenti

Final oral exam

Prerequisiti (conoscenze iniziali)

Working knowledge of general and systematic botany, with emphasis on adaptations, floral traits and characters of main families of the Italian vascular flora

Programma (contenuti dell'insegnamento)

Definitions of plant diversity. Patterns of plant diversity distribution. Monitoring plant diversity for conservation. Why conserve plant diversity: economic uses, ecosystem services, legal obligations. Threats to biodiversity.

Theory of plant conservation. In situ conservation of species and habitats. Legal obligations for in situ conservation. Priority lists for habitats and conservation: Habitat Directive. A classification



UNIVERSITÀ DI PISA

of threatened species: the red lists. Main organisations for in situ conservation. Conservation in a fragmented context: inspiration from the island biogeography theory. Ex situ conservation of species. Legal obligations for ex situ conservation. Main organisation for ex situ conservation. Closing the gap between ex situ and in situ: habitat restoration, introduction, reintroduction, reinforcement. Conservation psychology. Practical lessons will include visit to Botanic Gardens; visit to protected areas and evaluation of threats to biodiversity. Practical experience in habitat conservation in protected areas. Seed bank activities for ex situ conservation and reintroduction projects

Bibliografia e materiale didattico

1. Sodhi N.S., Ehrlich P.R., 2010. Conservation Biology for all. Oxford University Press (available online at <http://ukcatalogue.oup.com/product/9780199554249.do>)
2. Primack R.B., Carotenuto L., 2003. Conservazione della natura. Zanichelli, Bologna.
3. Hambler C., Canney S.C., 2013. Conservation (2nd edition). Cambridge University Press, New York.
4. Zuccarini P., Aguilera A., Bedini G., 2015. Spatial and temporal variation of community composition and species cover following dune restoration in the Devesa de Albufera (Valencia, Spain). Plant Biosystems, in press, doi: 10.1080/11263504.2015.1012134

Other material will be available from the class' E-learning page

Indicazioni per non frequentanti

Teaching material will be available on the E-learnin page.

Modalità d'esame

Final oral exam

Pagina web del corso

<https://polo3.elearning.unipi.it/course/view.php?id=2967>

Ultimo aggiornamento 18/09/2017 11:47