COASTAL AND MARINE BIOLOGY AND ECOLOGY (LM51)

(Lecce - Università degli Studi)

Teaching BIODIVERSITY OF COASTAL AND MARINE VEGETATION

GenCod A005728

Owner professor Vincenzo

Teaching in italian BIODIVERSITY OF COASTAL AND MARINE VEGETATION

Teaching BIODIVERSITY OF COASTAL AND MARINE VEGETATION

SSD code BIO/02

Reference course COASTAL AND MARINE BIOLOGY AND ECOLOGY

Course type Laurea Magistrale

Credits 10.0

Teaching hours Front activity hours: 86.0

For enrolled in 2021/2022

Taught in 2021/2022

Course year 1

Language ENGLISH

Curriculum Curriculum Marine Biology and Ecology

Location Lecce

Semester Second Semester

Exam type Oral

Assessment Final grade

Course timetable https://easyroom.unisalento.it/Orario

BRIEF COURSE DESCRIPTION

The course covers the following topics.

1. Coastal environment
2. Flora of coastal dune
3. Flora of rocky coast
4. Flora of coastal cliff
5. Multivariate analysis of data
6. Data transformation
7. Similarity and distance functions
8. Classification methods
9. Ordination methods
10. Software GINKGO

REQUIREMENTS

Knowledge about plant taxonony and general concepts of ecology and statistics

COURSE AIMS

The course achieves the following objectives

1. To provide students with general information about coastal plants
2. To be able to identify coastal plants
3. To be able to collect and sample data about costal vegetation
4. To introduce students to the use of a multivariate analysis software (GINKGO produced by the Department of Vegetal Biology, University of Barcelona)
5. To analyse collected data about coastal vegetation by a multivariate approach

TEACHING METHODOLOGY	This is a lecture-lab course in which topics are presented by the teacher in classroom, laboratory and on the field. Field trips to gather plant specimens and data on spatial pattern of vegetation in coastal ecosystems and computer labs are very important to acquire a knowledge and technical abilities based on collaborative and cooperative learning. Indeed students interact with each other and the teacher during the instructional sessions.
ASSESSMENT TYPE	By student group presentation on topics related to the course and testing the ability of single student to use the multivariate analysis software
REFERENCE TEXT BOOKS	Notes of lectures (aivalable on Microsoft Teams) Further reading Orlóci, L., 2013. *Multivariate analysis in vegetation research*. Springer. Orlóci, L., Kenkel, N.C. and Orlóci, M., 1987. Data analysis in population and community ecology. *Department of Plant Sciences, the University of Western Ontario, London, Canada* Pielou, E.C., 1984. *The interpretation of ecological data: a primer on classification and ordination*. John Wiley & Sons. Wildi, O., 2017. *Data analysis in vegetation ecology*. Cabi.