COASTAL AND MARINE BIOLOGY AND ECOLOGY (LM51)

(Lecce - Università degli Studi)

Teaching COMMUNITY ECOLOGY

GenCod A002217

Owner professor GIORGIO MANCINELLI

Teaching in italian COMMUNITY ECOLOGY

Teaching COMMUNITY ECOLOGY

SSD code BIO/07

Reference course COASTAL AND MARINE BIOLOGY AND ECOLOGY

Course type Laurea Magistrale

Credits 6.0

Teaching hours Front activity hours: 60.0

For enrolled in 2017/2018

Taught in 2017/2018

Course year 1

Language ENGLISH

Curriculum PERCORSO COMUNE

Location Lecce

Semester Second Semester

Exam type Oral

Assessment Final grade

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

BRIEF COURSE DESCRIPTION	The course presents a detailed analysis of fundamental theories in community ecology in relation to the general historical context of the evolution of the ecological discipline, from Charles Elton to the present day; subsequently, it addresses specific conceptual and methodological issues focused on: i) macroecology and community assembly, ii) diversity-function relationships, iii) top-down and bottom-up controls on community organization, iv) food webs. Laboratory activities focus on the formalization and analysis of ecological data using advanced statistical methods and dedicated freeware packages (R)
REQUIREMENTS	Knowledge of basic ecological concepts provided in undergraduate ecology courses
COURSE AIMS	To highlight and bring to students in a clear and contextualized way the most updated and discussed conceptual issues in community ecology, and at the same time provide the necessary statistical and methodological tools to analyze the structure and dynamics of natural communities
TEACHING METHODOLOGY	Lectures – Slides available online in pdf format - Reading of seminal papers in community ecology followed by discussion (student talks) - Group activities (working groups) analyzing specific topics related with the course - Supervised practical activities conducted in the computer lab using previously prepared material made available on-line
ASSESSMENT TYPE	Final exam consisting in i) a written review focusing on the publications read during the course and ii) written test with multiple choice questions.
REFERENCE TEXT BOOKS	Morin - Community Ecology Gotelli - Null Models in Ecology Polis & Winemiller - Food Webs Bolker - Ecological Models and Data in R