COASTAL AND MARINE BIOLOGY AND ECOLOGY (LM51)

(Lecce - Università degli Studi)

Teaching MARINE LIFE CYCLES		Teaching in italian MARINE LIFE CYCLES Course year 1	
		Teaching MARINE LIFE CYCLES	Language ENGLISH
GenCod A005727 Owner professor Adriana GIANGRANDE		SSD code BIO/05	Curriculum PERCORSO COMUNE
		Reference course COASTAL AND MARINE BIOLOGY AND ECOLOGY Course type Laurea Magistrale	Location Lecce
		Credits 5.0	Semester First Semester
		Teaching hours Front activity hours: 42.0	Exam type
		For enrolled in 2019/2020	Assessment
		Taught in 2019/2020	Course timetable https://easyroom.unisalento.it/Orario
BRIEF COURSE DESCRIPTION	diversity and evolution of life cycle of marine invertebrates .he knowledge of reproductive biology and diversity of larval forms is utilized to understand the evolution of life cycle and its implication in determining the invertebrate distribution and ecology		
REQUIREMENTS	Knowledge of zoology and especially on animal phylogeny and taxonomy knowledge of basical ecology rules		
COURSE AIMS	enable students to read specific paper on the topic in a critical manner, and to be able to carry out personal research on the subject treated during the course		
	_	of reproductive biology and diversity of larval forms is utilized to understand the e cycle and its implication in determining the invertebrate distribution and ecology	
TEACHING METHODOLOGY			
		rontal teaching and field exercises, stud ions of the topics and analyzing publicat	ents actively participate by producing their tions on the topic.

written and oral examination



ASSESSMENT TYPE

FULL SYLLABUS Description of complex life cycle in Marine invertebrates

Larval diversity in: Basal metazoa, Bilaterian: Protostome Lophotrocozoa and Ecdisozoa;

Deuterostome

Case of study: molluscs, polychaetes echinoderms

Importance of egg size and covariability of traits in marine invertebrates

integrating functions in the evolution of life cycle

phylogenetic constraits

Meaning of the developmental diversity Evolutionary and ecological aspects

More on larval dispersal life history theories

Importance of life cycle knowledge in ecological studies

Description of settlement and recruitment, population and community dynamics

Supply side ecology and connectivities

Bio-physical models Some examples

REFERENCE TEXT BOOKS

material provided by the teacher

