UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze della Terra e del Mare
ACADEMIC YEAR	2016/2017
MASTER'S DEGREE (MSC)	NATURAL SCIENCES
SUBJECT	PLANT ECOLOGY
TYPE OF EDUCATIONAL ACTIVITY	B
AMBIT	50511-Discipline ecologiche
CODE	02693
SCIENTIFIC SECTOR(S)	BIO/03
HEAD PROFESSOR(S)	SAJEVA MAURIZIO Professore Associato Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	6
INDIVIDUAL STUDY (Hrs)	98
COURSE ACTIVITY (Hrs)	52
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	1
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**SAJEVA MAURIZIO** Monday 10:00 12:00 Studio del docente in via Archirafi 20, quinto piano. E' preferibile prenotare il ricevimento scrivendo a maurizio.sajeva@unipa.it, con la possibilta di scegliere altri giorni secondo la disponibilita.

DOCENTE: Prof. MAURIZIO SAJEVA

PREREQUISITES	Basic knowledge of plant physiology
LEARNING OUTCOMES	Capability to understand adaptation taht is the basis of evolution. Acquisition of the tools for preparing ecological and conservation studies. Making autonomous judgments. To be able to evaluate results and implications of the results obtained. To evaluate the information from the media which regard own competences by using the competences acquired.
ASSESSMENT METHODS	A final oral exam consisting in a talk aimed at demonstrating knowledge and understanding of the program topics (including lab practicals), ability to analyze and combine information obtained from the course, verbal communication skills and use of appropriate scientific terminology. The student will be asked to answer a minimum of three questions. The sufficiency threshold (18/30) will be met by demonstrating to the examination board at least a general knowledge and understanding of the subjects and basic communication skills. Rating will increase (up to 30/30 cum laude) with increasing ability and detail in explaining and discussing the topics related to the subject.
EDUCATIONAL OBJECTIVES	Capability to coomunicate the results of investigations. To be able to evaluate the environmental fall-out of conservation activities. Capability to update by searching appropriate publications and literature. Capability to attend second level Master courses. The course will introduce to the principles of plant ecology, why plants are the way they are, their relationships to other living beings, how they developed in evolution and which factors determine their growth and survival. An introduction to basic plants physiology will give the information needed to better understand how plants may adapt to extreme environments. The course will also focus on the role of Plant Ecology in the major international conventions on nature conservation (CBD and CITES).
TEACHING METHODS	lessons and labs
SUGGESTED BIBLIOGRAPHY	Pubblicazioni fornite dal docente/scientific papers provided by the professor Suggested books: Schulze, E.D., Beck, E. & Müller-Hohenstein, K., 2005. Plant Ecology. Springer. Larcher W., 2013 Physiological Plant Ecology: Ecophysiology and Stress Physiology of Functional Groups. Storia culturale del clima./A Cultural History of Climate by W. Behringer. 1984. G. Orwell.

SYLLABUS

Hrs	Frontal teaching
5	Water ecology.
5	Ecological aspects of photosynthesis
6	Adaptations to arid environments
6	Secondary metabolites
6	plant-animal interactions
6	CITES, CBD
6	Pollination biology

Hrs	Practice
4	methods to evaluate plant-animal interactions
4	CITES Not Detrimental Finding (NDF)
4	Evolution of sucuclent plants: examples