General information		
Academic subject	*Plant diversity*	
Degree course	Environmental Biology	
Academic Year	*I*	
European Credit Transfer and Accumulation System (ECTS)		6
Language	*Italian*	
Academic calendar (starting and ending date)	*I semester (1/10/2021-21/12/2021)*	
Attendance	*Yes*	

Professor/ Lecturer	
Name and Surname	Viviana Cavallaro
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Department and address	*Department of Biology, Campus "E Quagliariello" Bari* my personal studio: at the 1st floor of the " Botanical Garden" palace - Campus. *"E Quagliariello" Bari*
Virtual headquarters	*Teams code: d069n0h*
Tutoring (time and day)	On Tuesday from 9.00 to 11.00 and Wednesday from 12,00 to 14.00

Syllabus	
Learning Objectives	*The student will have a basic knowledge of systematic botany and a good use of the scientific method will also have professional skills in the field of plant biodiversity and will be able to analyze the plant component of the natural and anthropized environment in terms of study and reading of the landscape, with a view to conservation and recovery of natural environments*
Course prerequisites	Basic knowledge in Botany
Contents	Morphological characteristcs with taxonomic value. Cyanobacteria and their ecological and evolution importance. Eukaryotics algae: Rhodophyta, Chlorophyta, Charophyta, Cryptophyta, Haptophyta, Phaeophyta, Bacillariophyta. Adaptations toterrestrial life Bryophyta: Anthocerotopsida, Marchantiopsida, Bryopsida Vascular plants Pteridophyta: Psilophytopsida, Psilotopsida, Lycopodiopsida, Equisetopsida, Pteropsida. Spermatophyta: Coniferophytina (Ginkgoopsida, Pinopsida), Cycadophytina (Cycadopsida, Gnetopsida), Magnoliophytina (Magnoliopsida, Rosopsida, Liliopsida). Fungi: Oomycota (Oomycetes), Eumycota (Chytridiomycetes, Zygomycetes, Ascomycetes, Basidiomycetes).

	Lichens. The most important families of Italian Flora : Apiaceae, Asteraceae, Brassicaceae, Fabaceae, Lamiaceae, Rosaceae, Alliaceae, Poaceae, Orchidaceae, Liliaceae
Books and bibliography	Botanica generale e diversità vegetale. Pasqua, Abate, Forni. Editore Piccin Strasburger – Trattato di Botanica sistematica vol. II Delfino Editore Roma
Additional materials	Lecture Power Points are available as support to the study

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
150	*32*	*24*	*94*
ECTS			
6	*4*	*2*	

Teaching strategy	
	Lectures (with the use of PowerPoint), study case and workshop. Teaching is provided in a blended learning
Expected learning outcomes	
Knowledge and understanding on:	The student have to understand : the importance of Systematic Botany in understanding plant biodiversity. The importance of the main methods of the discipline. The ability to recognize taxonomic features and the traits of the main taxa. This knowledge should be learned throughout lectures. Workshop activities should make the students learn how to recognize the different species. This shill is considered to be the basis to comprehend the vegetal components of the various ecosystems ○
Applying knowledge and understanding on:	○ The ability to recognize species by using modern methods and to analyze datas independently. During workshops, students should properly use lab tools and follow the various steps of the workshop ○
Soft skills	• *Making informed judgments and choices* Great ability to make judgments on botany themes and to interpret experimental datas. ○ • *Communicating knowledge and understanding* *The ability to work alone and in groups and to use a proper vocabulary* • *Capacities to continue learning* ○ The ability to interpret critically the course contents. The ability to use proper sources and to make proper links between the course contents .

Assessment and feedback	
Methods of assessment	Oral examination.
Evaluation criteria	• *Knowledge and understanding* Students have to know all course contents. To pass the exam the student should at least know the fallowing topics: morphological features having a taxonomic value, sexual and asexual reproduction in plants, the most important adaptations to aquatic life and on earth, main Spermatophyta traits. ○ • *Applying knowledge and understanding* ○ The ability to recognize plant species by using modern methods and to analyze data independently is considered to be essential • *Autonomy of judgment* The student must show autonomy of judgment on the main issues of the discipline and always on the basis of scientifically correct principles. • • *Communicating knowledge and understanding* ○ The ability to communicate properly and in a clear way and to use an adequate vocabulary will be taken into consideration ○ • *Capacities to continue learning* Students should show to be able to interpret critically the course contents and to make proper connections between them. If they do so, they will be well valued
Criteria for assessment and attribution of the final mark	The evaluation is expressed out of thirty
Additional information	