Stampare su carta intestata del CdS

General information	
Academic subject	***Safeguard and valorization of plant biodiversity***
Degree course	*Science Agro –Environment Management of Mediterranean Rural Systems*
Academic Year	*2021/2022*
European Credit Transfer and Accumulation System (ECTS)	6
Language	*Italian*
Academic calendar (starting and ending date)	*I semester*
Attendance	*no*

Professor/ Lecturer	
Name and Surname	Agata Gadaleta
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Department and address	*DiSAAT*
Virtual headquarters	*Teams*
Tutoring (time and day)	

Syllabus	
Learning Objectives	At the end of the course the students will acquire the basic knowledge on the main approaches to the study of plant diversity and the main methodologies for biodiversity protection.
Course prerequisites	
Contents	The student will deepen basic concepts of population genetics, conservation genetics and plant breeding, which are essential to take actions on the safeguard and valorisation of plant genetic resources. Main contents of the course will be: 1) Plant biodiversity and its origin; 2) the issue of genetic erosion and safeguard of genetic resources; 3) methodologies for the valorisation of plant biodiversity ; plant breeding mythologies
Books and bibliography	•*BARCACCIA G., FALCINELLI M., 2005. Genetica e genomica. Vol. II: "Miglioramento genetico". Liguori Editore, Napoli.* •*LORENZETTI F., CECCARELLI S., ROSELLINI D., VERONESI F. 2011. Genetica agraria. Patron Ed.* •*LORENZETTI F., M. FALCINELLI, F. VERONESI, 1994. Miglioramento genetico delle piante agrarie. Edagricole, Bologna.* •*Notes of the lectures distributed during the course.*
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
150	*32*	*28*	*90*
ECTS			
6	*4*	*2*	
Teaching strategy			
	Themes talked during the course will be presented by means of Power Point		

	presentations and the reading of scientific publications.
Expected learning outcomes	
Knowledge and understanding on:	○ Basic concepts on population genetics, genetic erosion, conservation genetics and plant breeding
Applying knowledge and understanding on:	○ Application of methodologies for the conservation of plant genetic resources, the creation of genetic variation and plant breeding
Soft skills	• *Making informed judgments and choices* ○ Capacity to understand suitable tools for the management of plant biodiversity in terms of safeguard and valorisation • *Communicating knowledge and understanding* ○ Development of personal skill of communication, multidisciplinary group work and judging capacity • *Capacities to continue learning* ○ Capacity to update knowledge on the subject

Assessment and feedback	
Methods of assessment	
Evaluation criteria	• *Knowledge and understanding* ○ Capacity to correctly report themes related to population genetics, conservation genetics and plant breeding • *Applying knowledge and understanding* ○ Capacity to correctly report methodologies for the safeguard and valorization of genetic resources • *Autonomy of judgment* ○ Capacity to evaluate most suitable strategies for the safeguard and valorization of genetic resource • *Communicating knowledge and understanding* ○ Capacity to communicate knowledge acquired during the course • *Capacities to continue learning* ○ Capacity to update knowledge on themes treated during the course
Criteria for assessment and attribution of the final mark	The exam will consist of an oral test on questions related to the subjects deepened during the Course, as pointed out in the "Regolamento Didattico del Corso di Studio Magistrale" in SAAT (art. 10) and in the curriculum scheme (Annex A). For students that passed the intermediate exam, the overall evaluation mark will be the average between marks obtained at the intermediate exam and the final exam.
Additional information	