

COURSE OF STUDY MASTER'S DEGREE COURSE IN AGRO-ENVIRONMENTAL AND TERRITORIAL SCIENCES (SAAT)

ACADEMIC YEAR (2023-2024)

ACADEMIC SUBJECT (MEADOWS, PASTURES AND GRASSING TECHNIQUES)

General information	
Year of the course	SECOND
Academic calendar (starting and ending date)	2 ND semester
Credits (CFU/ETCS):	6
SSD	AGR 02: AGRONOMY AND HERBACEOUS CROPS
Language	ITALIAN
Mode of attendance	OPTIONAL

Professor/ Lecturer	
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Virtual room	
Office Hours (and modalities: e.g., by appointment, on line, etc.)	

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Es. 45	24	6	75
CFU/ETCS			
Es. 3	2	1	

Learning Objectives	<p>The course of MEADOWS, PASTURES AND GRASSING TECHNIQUES has the following objectives:</p> <ol style="list-style-type: none"> 1. Knowledge of botanical and agronomic aspects of the main forage species in alternating cropping systems; 2. Acquisition of methodologies for the study of vegetation in meadow-pasture plant communities. 3. Use of the aforementioned skills in problems related to the management of agro-zootechnical systems. <p>Knowledge of grassing techniques and turf management</p>
Course prerequisites	<p>The course on meadows, pastures and grassing techniques deals with issues that require knowledge of subjects relating to agronomy; therefore, it is recommended to have such types of knowledge</p>

Teaching strategie	<p>Frontal lesson (inductive, deductive and dialogue), calculation exercises, video analysis, group exercises, farm visits</p>
Expected learning outcomes in terms of Knowledge and understanding on:	<p>At the end of the course students will be able to:</p> <ul style="list-style-type: none"> - Describe the environmental factors that influence agricultural

	<p>forage production.</p> <ul style="list-style-type: none"> - Describe the anthropic factors that can act on agricultural forage production. - Describe the methods of sustainable management of meadows and pastures - Describe the best grassing techniques
Applying knowledge and understanding on:	<p>At the end of the course the student should be able to:</p> <ul style="list-style-type: none"> - Evaluate the importance of the effects of agronomic and/or environmental factors affecting the productivity of forage crops. - recognize the productive potential of different types of forage crops - know the main machines available for haymaking.
Soft skills	<p>At the end of the course the student should be able to:</p> <ul style="list-style-type: none"> - hypothesize the effects that the environmental components have on forage production and how to influence them - propose the most suitable agrotechnics to face the most frequent cultivation problems - propose the most suitable agrotechnics to face the most frequent cultivation problems- plan company activities in order to improve production components and sustainable use of agricultural resources <p>Communication skills</p> <ul style="list-style-type: none"> -provide a sufficient range of practical examples of the application of agronomic cultivation techniques
Syllabus	
Content knowledge	<p>General information on forage crops</p> <ul style="list-style-type: none"> - Meadows: Alfalfa, medium and underground clover, Sulla sweetvetch, Sainfoin, meadow grasses <p>Of the crops indicated above, aspects relating to the botanical aspects, the biology, the needs and environmental adaptation, the agronomic technique will be addressed (processing, fertilization, weed management, harvested irrigation, available cultivars, adversities,</p> <ul style="list-style-type: none"> - Pastures: definitions and classification, pastoral vegetation, types of vegetation, evaluation of pastures, production of pastures, management of pastures, organization of pastoral activity. <p>Forage conservation</p> <p>Turf and grassing: general aspects, soil and climatic conditions, microthermal species, macrothermal species, problems relating to the planting and management of the turf</p>
Texts and readings	<ul style="list-style-type: none"> - Lecture notes and teaching material distributed during the course. - Giardini, L. Coltivazioni erbacee . Patron Publisher 2012
Notes, additional materials	
Repository	

Assessment	
Assessment methods	<p>The final exam is divided into an initial written part based on numerical exercises, carried out during the exercises. The oral part of the interview includes further verification of the preparation by asking other questions in oral form. The execution of the exam is linked to the possible execution of the intermediate checks, foreseen during the specific periods.</p> <p>The communication of the evaluation will take place at the end of the performance</p>
Assessment criteria	<p>Knowledge and understanding</p> <ul style="list-style-type: none"> - Technical management skills of the various components of the agricultural agro-ecosystem. <p>Applying knowledge and understanding</p> <ul style="list-style-type: none"> - Knowing how to identify good agronomic practices <p>Autonomy of judgment</p> <ul style="list-style-type: none"> - Ability to carry out an environmental analysis of the rural system, knowing how to identify its critical issues and potential with reference to agricultural exercise. <p>Communicating knowledge and understanding</p> <ul style="list-style-type: none"> - Knowing how to explain and argue on complex agronomic issues both in written and oral form <p>Capacities to continue learning</p> <ul style="list-style-type: none"> - Knowing how to learn information from regulations and reference texts in the agronomic sector - Knowing how to use tools and new information technologies that guarantee continuous updating of knowledge in the specific professional sector and in the field of scientific research
Final exam and grading criteria	<p>The final score is given in thirtieths. The exam is considered passed when the grade is greater than or equal to 18/30. For the purposes of calculating the final mark, the intermediate tests, the written exercise, the oral part will be considered.</p> <p>The student's ability to develop independent judgment and adequate argumentation and exposition skills contributes to the assignment of a high grade or honors.</p>
Further information	
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