

General information	
Academic subject	Agronomy – I.C. Animal nutrition and feeding
Degree course	Veterinary Medicine
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	2
Language	Italian
Academic calendar (starting and ending date)	IV Bimester
Attendance	Mandatory

Professor/ Lecturer	
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	
Tutoring (time and day)	From Monday to Thursday by appointment

Syllabus	
Learning Objectives	Acquisition of knowledge and skills functional to a critical analysis of the technical itineraries of the main cereal and forage crops. Basic knowledge of the biology, phenology, and physiology of the herbaceous species of agricultural interest most widespread in agro-zootechnical farms, agronomic management of Mediterranean pastures.
Course prerequisites	Not expected
Contents	The climate and agricultural plants, main physical, chemical and microbiological characteristics of the soil, the organic matter of the soil and organic fertilizers, mineral fertilization, crop rotation. Main aspects on cultivation techniques, use and quality of the products of the following classes of herbaceous crops: autumn-winter cereals (wheat, barley, oats, rye and triticale) and spring-summer (corn and sorghum), leguminous crops (broad bean, pea, lupine, chickpea, lentil). General information on forage crops (definitions, criteria for use, classification, forage systems). Autumn-spring grasses. Spring-summer and summer grasses. Main agronomic characteristics of the most important grass and legume grassland species. General aspects of permanent meadows, pastures and meadow-pastures. Mediterranean pastures: vegetation and flora, agronomic improvement and utilization. Haying, ensiling.
Books and bibliography	Notes of lectures distributed during the course. Bonciarelli F.- Fondamenti di Agronomia Generale. Bologna. Edagricole. Baldoni R., Giardini L. – Coltivazioni erbacee: Cereali e proteaginose. Bologna. Pàtron Editore. Baldoni R., Giardini L. – Coltivazioni erbacee: Foraggere e tappeti erbosi. Bologna. Pàtron Editore
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
50	20	0	30
ECTS			
2	2	0	
Teaching strategy			
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ The student must acquire notions relating to the climatic and edaphic factors that affect the life of agricultural crops. 		
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ The student must be able to relate the agronomic management of the farm with the quantitative and qualitative response of the main cereal, forage and pasture crops. 		
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ The student must be able to propose technical itineraries capable of enhancing the agricultural plant component of cereal, forage and pasture crops in agro-livestock farms. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Competence to recognize the main plant species for zootechnical uses and the main plants cultivation techniques. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ The expected learning outcomes, in terms of knowledge and skills are shown in Annex A of the Didactic Regulations of the Master's Degree Course. 		

Assessment and feedback	
Methods of assessment	Oral exam on topics as for program
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Evaluate the ability to understand and highlight the relationship of the farm's agronomic management with the quantitative and qualitative response of the main cereal, forage and pasture crops. • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability to describe the effects of agronomic techniques on the quantitative-qualitative response of the main cereal, forage and pasture crops. • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ express reasonable assumptions about the effects of cultivation techniques on the quantitative-qualitative response of the main cereal, forage and pasture crops. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Evaluation of personal skills, aimed at communication and judgment, both on a technical and human and ethical level. • <i>Communication skills</i> <ul style="list-style-type: none"> ○ The assessment of the student's preparation takes place on the basis of pre-established criteria, as detailed in Annex A of the Didactic Regulations of the Master's Degree Course in Veterinary Medicine <p><i>Capacities to continue learning</i></p>



Criteria for assessment and attribution of the final mark	The final grade is in thirtieths. The exam is passed when the grade is greater than or equal to 18/30. The evaluation acquired in this exam, to that of Animal nutrition, will contribute to the final evaluation of the integrated examination of Animal Nutrition and Feeding.
Additional information	