





COURSE OF STUDY Sustainable Agriculture Techniques - LP 02 ACADEMIC YEAR 2023/2024

ACADEMIC SUBJECT Organic and sustainable livestock

Module of the Integrated Course: Agro-forestry livestock systems (98 ECTS)

General information			
Academic subject	Organic and sustainable livestock		
Degree course	Sustainable Agriculture Techniques - LP 02		
Academic Year	2023/2024		
European Credit Transfer and Accumulation System (ECTS)		4 (3 CFU Lectures + 1 CFU Laboratory and training activity)	
Language	Italian		
Academic calendar (starting and ending date)			
Attendance	No		

Professor/ Lecturer	
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Department and address	Department of Soil, Plant and Food Science – Via Amendola 165/A, II floor
Virtual headquarters	Tutoring can be performed by using e-learning platforms
Tutoring (time and day)	From Monday to Friday (9.00 – 12.00), upon appointment

Syllabus	
Learning Objectives	Knowledge of the livestock environmental impact, breeding technologies and
	organic livestock
Course prerequisites	Knowledge of animal biology and livestock species
Contents	1. Relationship between animal husbandry and the environment
	2. Environmental impact of livestock
	3. Manure production and management
	4. Organic livestock: law and structural requirements for the main species
	5. Rational management of pasture
Books and bibliography	Notes and materials distributed during the class
Additional materials	

Work schedule				
Total	Lectures		Hands on (Laboratory, working groups, seminars,	Out-of-class study
			field trips)	hours/ Self-study
				hours
Hours				
100	24		14	62
ECTS				
4	3		1	
Teaching strategy				
	Lectures will be carried out with the support of PC assisted tools (PowerPoint		ols (PowerPoint	



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	slides), in depth video showing, group works and technical visits to livestock farms.	
Expected learning outcomes		
Knowledge and understanding	 Knowledge about animal breeding 	
on:	 Knowledge on different manure management 	
	 Knowledge on organic livestock. 	
Applying knowledge and	O Ability to apply, for the different livestock specie, the manure management	
understanding on:	techniques in accordance with environmental impact, animal welfare and	
	pasture management	
Soft skills	Making informed judgments and choices	
	 Ability to design, manage and verify the breeding technologies in order to improve the environmental and productive sustainability of livestock 	
	Communicating knowledge and understanding	
	 Ability to describe breeding techniques and their influence on animal 	
	welfare.	
	Capacities to continue learning	
	 Ability to deepen, study and gain update on new animal breeding techniques 	

Assessment and feedback		
Methods of assessment	For students enrolled in the academic year in which teaching is carried out, there is a mid-term exam consisting in an oral test on arguments developed during theoretical and theoretical-practical lessons. The mark of this test contributes to the evaluation of the final exam and is valid for one academic year. Students who fail the first mid-term exam must attend the general exam. For foreign students the oral exam will be held in English.	
Evaluation criteria	 Knowledge and understanding Good level in the description of existing relationships among systems and technologies of livestock husbandries, animal welfare and environmental impact Good level of insight in describing the organic breeding systems addressed to the improvement of the environmental and productive sustainability Applying knowledge and understanding Methodological approach in describing issues related to the sustainability of the livestock productions in relation to the livestock species. Capacity to analyse the quality of manure management. Finding of functional management of pasture according to sustainability criteria. Autonomy of judgment Ability to analyse different production systems in function of livestock species. Capacity to design, manage and verify sustainable breeding technologies of livestock according to sustainability criteria. Communicating knowledge and understanding Ability to describe animal organisms, biological phenomena, physiological states interacting in the farm under consideration. Communication skills Effectiveness and clarity in the exposure of the topics. Capacities to continue learning Ability to apply knowledge and skills in problem solving activities in order to solve new and complex theoretical-practical problems. 	
Criteria for assessment and	The student competence evaluation, in both mid-term and final exam, is based on	
attribution of the final mark	predefined criteria, as detailed in Attachment A of the Academic Regulation of the	



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	Master Degree Program. For students who have taken the exemption test, the evaluation of the final exam is expressed by the arithmetic average of the marks obtained in the exemption test and in the final exam
Additional information	