Curricular Unit Form





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Updated On	2024/02/07										
Curricular Year / Period	2023/24 / S1										
Course	Agronomy										
Curricular Unit	Animal Biology										
Language(s) of Instruction	Português										
	ECTS Total Horas de contacto semestral										
			Т	TP	PL	s	тс	E	0	ОТ	EC
ECTS/tempo de trabalho (horas)	5	134	24	24	0	0	0	0	0	0	0
	T - Theoretical; TP - Theoretical and practical; LP - Laboratory Practice; S - Seminar; TG - Tutorial guidance; FW - Fieldwork; T - Training; ; EC - Clinical teaching; O* - Other hours typified as Clinical Training under the Directive 77/453/EEC of June 27, adapted by Directive 2005/36/EC.										
Teacher in charge (GDPR consent)	Noémia Do Céu Machado Farinha / nfarinha@ipportalegre.pt										
[complete name, email]											
Prerequisites [Curricular Units that must precede and specific entry competences]	Not applicable										
Learning outcomes [Description of the overall and specific objectives] [Knowledge, skills and competences to be developed by students]	Know the main species and breeds exploited for Zootechnical purposes in Portugal, their skills and production cycle. - Use language and tools of common use in animal production, namely with regard to the exterior and skeleton of farm animals. - Identify the main aspects related to the anatomy and physiology of animal reproduction, the methods of synchronization of spines and artificial insemination. - Recognize the importance that nutrition plays in animal production - performances, production systems and economic results. Master the classification of food, its chemical composition and use by animals. - For economic and environmental reasons, knowing how to adapt food to the physiology of the animal's digestion. - Deepen the energy nutrition of ruminants, mastering the resolution of concrete problems for animals of dairy and meat aptitude										
Sustainable Developemnt Goals	2 ZERO HUNGER	4	QUALITY EDUCATION	8 ECO	ENT WORK AND Nomic Growth	12 RESPO	ONSIBLE JUMPTION RODUCTION	5 LIFE ON LAND	- -		
Syllabus	 Domestic animals with zootechnical interest Staff and consumption in Portugal and the EU Classification, main races, characteristics and aptitudes. Productive cycle Animal morphology, anatomy and physiology Exterior of domestic animals Skeleton and basics of osteology Estimating the age of the animals Zoom measurements Reproduction. Cio induction and synchronization. Artificial insemination Lactation. Production Contrasts Digestion Animal nutrition Composition and chemical analysis of food Use of food Food classification Energy nutrition 										

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DL FORTHLLORL	Escola Superior Agrária de Elvas
	3.5 Nitrogen nutrition 3.6. Vitamin nutrition 3.7 mineral nutrition 3.8. Water in animal feed
Teaching methodologies (including assessment) [Specify the types of assessment and the weights and evaluation criteria]	1 - Teaching methodologies Sessions of theoretical framework and debate. Presentation of demonstrative examples and their criticism; discussion of practical cases presented by the teacher and the students, presupposing the active participation of the students in the classes. Problem solving, in the classroom, about Nutrition matters with the greatest impact on the professional life of future graduates (chapter 3). The assessment consists of four written tests throughout the semester, where the first 3 (chapters 1, 2.1 to 2.4 and 2.5 to 2.7) have a weighting of 20% and the last one (chapter 3) of 40% At each evaluation time the minimum grade is 10 points. In the exam the student can be evaluated to the totality of the subject (being approved if the final classification is> = 10 values) or only to the components of the evaluation with classification <10 values 2 - Period assessment The assessment is composed of 4 written tests throughout the semester 1st frequency: chapter 1- 20% of final classification 2nd frequency: chapters 2.1 to 2.4- 20% of final classification 3rd frequency: chapters 2.5 to 2.8- 20% of final classification 3 - Examination assessment In the exam the student can be evaluated to the totality of the subject (being approved if the final classification is> = 10 values) or only to the components of the evaluation with classification <10 values
Bibliography	 1 - Main Bibliography Afonso, F. Candeias, G., Pratas, M. 2013. Raças autoctones Portuguesas. DGAV, 335p. - Carbó, Carlos Buxadé (coordenador), 1995. Zootecnia. Bases de Producción Animal. Tomos I e II. Ediciones Mundi-Prensa. Madrid. - Colville, T.; Bassert, J. 2002. Clinical Anatomy & Physiology for Veterinary Technicians. Capítulos 5 (The Skeletal System), 11 (The Digestive System) e 16 (The Reproductive System). - Guyomard, H., Bouamra-Mechemache, Z., Chatellier, V., Delaby, L., Détang-Dessendre, C., & Peyraud, J. L. (2021). Review: Why and how to regulate animal production and consumption: The case of the European Union. Animal 2021; 15: 100283. - INE, 2019. Censos agrícolas. - McDonald, P.; Edwards, R.A.; Greenhalgh, J.F.D.; Morgan, C.A.; Sinclair, L.A.; Wilkinson, R.G. 2011. Animal Nutrition. Prentice Hall. - Mosby, USA.Frandson, R.D.; Sporgeon, T.L. 1992. Anatomía y Fisiología de los Animales Domésticos. Interamericana McGraw-Hill, Mexico. - INRA, 1985. Alimentación de los animales monogastricos - cerdo, conejo, aves. Ediciones Mundi-Prensa. Madrid. Jarrige, R. 1988. Alimentação dos bovinos, ovinos e caprinos. Colecção Euroagro - Publicações Europa-América, Mem-Martins. - Sá, F.V. 1990. As vacas leiteiras. Nova Colecção Técnica Agrária. Clássica Editora, Lisboa. - Serra, J.L. 1995. Anatomia, fisiologia e exterior dos animais domésticos. Litexa Editora, Lisboa - Review: Why and how to regulate animal production and consumption: The case of the European Union, 2021. - videos, links e bibliografia on-line atualizada 2 - Complementary Bibliography
Special Situations [Students with special status]	1 - Period assessment - Students with special status Rules similar to ordinary students 2 - Examination assessement - Students with special status

Rules similar to ordinary students