Curricular Unit Form





											Hyraria de Elvas
Updated On	2023/09/17										
Curricular Year / Period	2023/24 / S1										
Course	Equiniculture										
Curricular Unit	Exercise Physiology and Biomechanics										
Language(s) of Instruction	Português Inglês (apoio tutorial a estudantes ERASMUS+)										
ECTS/tempo de trabalho (horas)	ECTS Total Horas de contacto semestral										
	6	160	Т	TP	PL	s	TC	Е	О	ОТ	EC
			32	0	32	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) [complete name, email]	Rute Isabel Duarte Guedes Dos Santos / rutesantos@ipportalegre.pt										
Prerequisites	This subject has no mandatory precedences; however, basic entry skills include basic knowledge of the										
[Curricular Units that must precede and specific entry competences]	anatomy and physiology of the horse, namely of the cardiovascular, respiratory, nervous and endocrine systems.										
Learning outcomes [Description of the overall and specific objectives] [Knowledge, skills and competences to be developed by students]	Students should acquire theoretical knowledge and practical skills that enable them to understand the functioning of the equine body during exercise, the response to conditioning and the most common methods for evaluation of physical condition, to allow a rational use of the horse in sports activity, combining sports performance with preservation of health and animal welfare.										
Sustainable Developemnt Goals	3 GOOD HEALTH AND WELL-BEING AND WELL-BEING CONSUMPTION AND PRODUCTION CONSUMPTION AND PRODUCTION CONSUMPTION AND PRODUCTION CONSUMPTION AND PRODUCTION CONSUMPTION CONSUMPTIO										
Syllabus	LECTURE Introduction Energy beau Muscle ar Thermore Cardiovas Fluid and Respirato Endocrino Neurophy Training p Equine bid Influence Jump bior PRACTIC Energy beau Monitoring Monitoring Rectal ten Thermogr Assessment Hematocr Biochemic Evaluation Assessment	on to Exercises of exact muscle gulation icular and electrolytery system ological resiology of rinciples omechanics AL CLAS alance of sign of exercises of exercises of the exercise of the ex	ercise contracti blood balance sponse to locomotion cs: analyt horse loc SSES: sporting a g heart ra ising hear monitorir ration star ration star eters in spetric meas	on exercise on cical methodomotion ctivity attempted tus and great total plass port horse sures	ods and fo ut movem ma proteir	ents n determi	ination	e locomot	tion of ho	rses	

Curricular Unit Form





1 - Teaching methodologies

Theoretical classes with explanation and discussion of concepts and practical classes dedicated to the application of those same concepts, namely, calculation of energy balance, cardiac and body temperature monitoring, blood parameters, hydration status assessment, biometrics, and morphofunctional analysis. Theoretical assessment through written tests (70%), and practical assessment by performing one of the practical tasks addressed (selected at random), and an oral test, with answers to questions regarding the performed task (30%).

Teaching methodologies (including assessment)

2 - Period assessment

[Specify the types of assessment and the weights and evaluation criteria]

Theoretical assessment: 2 written tests, each representing 35% of final grade; minimum grade for each test: 10 out of 20 marks

Practical assessment: practical/oral test, representing 30% of final grade; minimum grade: 10 out of 20 marks

3 - Examination assessement

Theoretical assessment: written test, representing 70% of final grade; minimum grade: 10 out of 20 marks

Practical assessment: practical/oral test, representing 30% of final grade; minimum grade: 10 out of 20 marks

1 - Main Bibliography

Bibliography

Back, W; Clayton, HM (2002). Equine Locomotion. Saunders Elsevier Science, 2nd Edition, 384 pp. Denoix, J-M (2014). Biomechanics and Physical Training of the Horse, CRC Press, 184 pp. Hinchcliff, K. W. (Ed.). (2014). Equine sports medicine and surgery: Basic and clinical sciences of the equine athlete (2. ed). Saunders Elsevier.

Hodgson, D. R., McKeever, K. H., & McGowan, C. M. (Eds.). (2014). The athletic horse: Principles and practice of equine sports medicine (2nd ed). Saunders/Elsevier.

Ross, MW; Dyson, SJ (2003). Diagnosis and Management of Lameness in the Horse. Saunders Elsevier Science, 1140 pp. + CD-ROM

2 - Complementary Bibliography

1 - Period assessment - Students with special status

Theoretical assessment: 2 written tests, each representing 35% of final grade; minimum grade for each

test: 10 out of 20 marks
Practical assessment: practical/oral test, representing 30% of final grade; minimum grade: 10 out of 20

Special Situations

marks

[Students with special status]

2 - Examination assessement - Students with special status

Theoretical assessment: written test, representing 70% of final grade; minimum grade: 10 out of 20 marks

Practical assessment: practical/oral test, representing 30% of final grade; minimum grade: 10 out of 20 marks