

Updated On	2024/03/21																																
Curricular Year / Period	2023/24 / S2																																
Course	Veterinary Nursing																																
Curricular Unit	Animal Reproduction and Obstetrics																																
Language(s) of Instruction	Português Inglês																																
ECTS/tempo de trabalho (horas)	<table border="1"> <thead> <tr> <th>ECTS</th><th>Total</th><th colspan="8">Horas de contacto semestral</th></tr> <tr> <th>6</th><th>160</th><th>T</th><th>TP</th><th>PL</th><th>S</th><th>TC</th><th>E</th><th>O</th><th>OT</th><th>EC</th></tr> </thead> <tbody> <tr> <td></td><td></td><td>32</td><td>0</td><td>32</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table> <p>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.</p>	ECTS	Total	Horas de contacto semestral								6	160	T	TP	PL	S	TC	E	O	OT	EC			32	0	32	0	0	0	0	0	0
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6	160	T	TP	PL	S	TC	E	O	OT	EC																							
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Teacher in charge (GDPR consent) [complete name, email]	Elvira Matilla Pinto / elvirapinto@ipportalegre.pt																																
Teacher in charge (GDPR consent) [complete name, email]	Hélio Bruno Figueiredo Correia / heliocorreia@ipportalegre.pt																																
Prerequisites [Curricular Units that must precede and specific entry competences]	N/A																																
Learning outcomes [Description of the overall and specific objectives] [Knowledge, skills and competences to be developed by students]	To provide scientific knowledge and technical methods for the correct interpretation of the physiological mechanisms of reproduction and obstetrics in companion animals, farm animals and equine. To give the students technical and scientific knowledge as well as working methods of obstetrical nursing in different animal species and their particularities. The students will acquire competences in the area of reproduction and obstetrical nursing in the different species. They will learn to assist the Veterinarian in the supervision of different phases of reproduction, pregnancy, lactation and parturition. To perform and monitor seminal exams and vaginal smears. To accompany and monitor the new-born, their recovery and lactation. To plan and register information about reproductive management.																																
Sustainable Development Goals																																	
Syllabus	<p>Anatomy and physiology of the reproductive system of the male and female. Reproductive cycles and regulatory factors. Gestation, fertilization, embryonic development, implantation, placentation, parturition.</p> <p>Equine reproduction: estrous cycle physiology, gestation, breeding season in the mare, reproductive management, reproductive diseases, parturition. Main reproductive aspects in the stallion.</p> <p>Reproduction in bovine: physiology, herd reproductive management, estrus control, reproductive diseases, parturition. The bull - main reproductive aspects, artificial insemination, embryo transfer.</p> <p>Small ruminants reproduction: physiology, herd reproductive management, reproductive diseases, parturition, main reproductive aspects in the ram and billy goat.</p> <p>Reproduction in swine: physiology, reproductive management, reproductive diseases, parturition, the male.</p> <p>Canine reproduction: physiology, gestation, parturition, breeding management, reproductive diseases.</p> <p>Feline reproduction: physiology, gestation, parturition, breeding management, reproductive diseases.</p>																																
Teaching methodologies (including assessment) [Specify the types of assessment and the weights and evaluation criteria]	<p>1 - Teaching methodologies</p> <p>Theoretical classes: discussion, exemplification, illustration.</p> <p>Practical classes: Practical clinical and laboratorial classes utilizing organs, citologic and histologic stains, large animal practices and visits.</p> <p>2 - Period assessment</p> <p>Theoretical part (50%): two midterms (minimal grade of 10 on each)</p>																																

	<p>Practical part (50%): final exam (50%). Minimal grade: 10</p> <p>3 - Examination assesement</p> <p>Theoretical part (50%): final exam (minimal grade of 10) Practical part (50%): final exam (50%). Minimal grade: 10</p>
Bibliography	<p>1 - Main Bibliography</p> <p>Manuais e apresentações do professor. Noakes, D. E., Parkinson, T. J., England, G. C. W. (2009) Veterinary reproduction and obstetrics. 9ª edição. Saunders Elsevier, EUA. Hafez, E. S. E. e Hafez, B. (2003) Reproducción e Inseminación Artificial en Animales. 7ª Ed. McGraw-Hill. Interamericana. México. Akers, R. M., et al. (2013). Anatomy & Physiology of Domestic Animals. 2ª ed. Willey Blackwell Bassett, J M.; McCurnin, D. M. (2014). McCurnins: Clinical Textbook for Veterinary Technicians. (8th edition). Elsevier Saunders Tempkin, B. B., (2015), Sonography scanning principles and protocols. 4ª edição. Elsevier Saunders, EUA Reeder, D.; Miller, S.; Wilfong, D.; Leitch, M.; Zimmel, D. (2009) AAEPV's Equine Manual for Veterinary Technicians. Wiley-Blackwell. (Capítulo: Equine reproduction) Silva, C; Ortiz, J; Santos, R; Minas, M. (2020) Acompanhamento Reprodutivo em Éguas e Transferência de Embriões. ISBN: 978-989-8806-37-6 Carvalho, I, B; Guimarães, H; Cardoso, M; Pias, G; Silva, C; Lopes, L, S; Branco, S; Queiroga, C; Bettencourt, E. (2022) Diagnóstico e Tratamento da Endometrite na Égua. ISBN: 978-972-778-299-4</p> <p>2 - Complementary Bibliography</p> <p>Allen, W., E., (1999), Fertilidad y Obstetrícia Equina. Prestes, Nereu Carlos (2006). Obstetrícia Veterinária. Ed Guanabara Koogan, ISBN: 8527711850 Kustritz, M., V., R. (2010). Clinical canine and feline reproduction. Wiley-Blackwell, Iowa, EUA Etches, R.J., (1995). Reproduction in poultry. CABI Publishing, Wallingford, Reino Unido Noakes, D.E., Parkinson, T. e England, G., (2001). Arthur's veterinary reproduction and obstetrics. 8ª Edição, W. B. Saunders Company, Filadélfia, EUA Senger, P.L. (2004). Pathways to pregnancy and parturition. 2ª Edição, Current Conceptions, Inc., Washington State University Research & Technology Park, Washington, EUA Youngquist, R.S. (1997). Current therapy in large animal theriogenology. W. B. Saunders Company, Filadélfia, EUA. McKinnon, A. O., Squires, E. L., Vaala W. E., Varner, D. D., (2011). Equine Reproduction. 2ª Edição. Wiley-Blackwell, EUA Recursos disponíveis na Biblioteca do Conhecimento On-line (b-On).</p>
Special Situations [Students with special status]	<p>1 - Period assessment - Students with special status</p> <p>Theoretical part (50%): two midterms (minimal grade of 10 on each) Practical part (50%): final exam (50%). Minimal grade: 10</p> <p>2 - Examination assesement - Students with special status</p> <p>Theoretical part (50%): final exam (minimal grade of 10) Practical part (50%): final exam (50%). Minimal grade: 10</p>