General information		
Academic subject	**Obstetrics**	
Degree course	Veterinary Medicine	
Academic Year	2021/2022	
European Credit Transfer and Accumulation System (ECTS)		2
Language	Italian	
Academic calendar (starting and ending date)	III two-month	
Attendance	Mandatory	

Professor/ Lecturer	
Name and Surname	Prof. Raffaele Luigi Sciorsci
E-mail	raffaeleluigi.sciorsci@uniba.it
Telephone	0805443881
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft Teams (Codex vxg2ji9)
Tutoring (time and day)	Monday, wednesday e thursday h. 13:30 – 15:30

Syllabus	
Learning Objectives	The learning objectives will consist in providing the theoretical tools intended to understand the physiological activities of hormones, the gestation phase and parturition, in the major species of veterinary interest. This will lay the necessary foundations for clinical-obstetric and gynecological studies.
Course prerequisites	The student must have acquired knowledge of general pathology and skills relating to the anatomy and physiology of the reproductive system.
Contents	- Introduction to the course: Description of the specific learning objectives of the teaching, its place in the training of the Veterinarian and methods of teaching delivery, as well as the methods and criteria for assessing the knowledge, skills and minimum skills to be achieved. - Introduction to obstetrics: Principles governing reproductive function. Functional anatomy of the hypothalamus-pituitary-gonadal axis. Simple and neuroendocrine nerve reflex. Transmission of signals between cells (paracrine, autocrine, endocrine and neurocrine) - Hormones and receptors: Hormones involved in reproductive activity. Characteristics of receptors: membrane and intracellular receptors. Signal transduction - Puberty: factors that influence the onset of puberty. - Pregnancy: embryogenesis, maternal recognition of pregnancy, reproductive functions of the alpha fetus protein, endocrinology - Placentation: function and classification of the placentas - Parturition: stages and obstetric terminology (presentation, position and attitude). - Endocrinology of parturition - Parturition understood as an inflammatory process. The ripening of the cervix. - The parturition in the different species. - Neonatology of the different species - Practical part: recognition of the reproductive system of the different species and functional structures; pregnancy diagnosis on a cow model;

U.O. Didattica e servizi agli studenti
Strada prov.le 62 per Casamassima, km. 3,00
70010 Valenzano (Bari) - Italy
Tel. (+39) 080 5443944-45-46 • fax (+39) 080 5443939
francesca.colaianni@uniba.it

	obstetrical visits to cows in livestock farms and possible assistance in parturition
Books and bibliography	Noakes D.E., Parkinson T.J., England G.C.W. Arthur's **Veterinary Reproduction & Obstetrics, 10th edition, 2018.** Jackson P. G. G.: Manuale di Ostetricia Veterinaria. Ed. Grasso, Bologna, 1999. Senger P.L. (2006). Patways to pregnancy and parturition. 2th Ed. Pullman, USA.
Additional materials	Lecture notes

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
50	13	25	12
ECTS			
2	1	1	

Teaching strategy	
	Teaching will take place in a mixed, frontal and remote mode, for the previsions on prevention from SARS-CoV-2 contagion. The theoretical part of the course will take place in classrooms equipped with multimedia tools such as PC, projector, internet connection, using power points prepared by the teacher. For each topic, a multiple choice quiz is provided, which allows the teacher to evaluate the learning achieved by students and clarify any doubts. At the beginning of the course, students will be divided into groups of 8, for the development of in-depth papers on topics related to the course. The practical lessons will take place in the halls of the Veterinary Educational Hospital, in the "Applied Famacology" laboratory of the Obstetric Clinic section and in the field, in livestock farms. Students will be divided into small groups and will be followed by the subject's owner and collaborators.
Expected learning outcomes	
Knowledge and understanding on:	○ Knowledge of the basic principles of obstetrics and hormonal mechanisms that regulate reproduction and parturition.
Applying knowledge and understanding on:	○ The student must be able to understand the stages of reproduction from conception to parturition; the student must recognize the reproductive apparatus of the different species and the functional structures to determine the phase of the cycle.
Soft skills	• Making informed judgments and choices At the end of the course, the student must be able to understand the gestation phase and parturition, in the major species of veterinary interest. This will lay the necessary foundations for clinical-obstetric and gynecological studies. • Communicating knowledge and understanding At the end of the course, the student must be able to use obstetric terminology correctly, in order to be able to relate to technicians and veterinarians in the sector • Capacities to continue learning At the end of the course, the student must be able to progress independently by deepening the issues of the clinical-obstetric and gynecological sector.

Assessment and feedback	
Methods of assessment	The skills acquired will be assessed in progress during the course, through multiple

U.O. Didattica e servizi agli studenti
Strada prov.le 62 per Casamassima, km. 3,00
70010 Valenzano (Bari) - Italy
Tel. (+39) 080 5443944-45-46 • fax (+39) 080 5443939
francesca.colaianni@uniba.it

	choice quizzes, which allows the teacher to evaluate the learning achieved by students.
Evaluation criteria	• Knowledge and understanding The student must know the stages of reproduction from conception to parturition. • Applying knowledge and understanding The student must be able to recognize the reproductive apparatus of the different species and the functional structures to determine the phase of the cycle; the student must recognize the stages of eutocic parturition. • Autonomy of judgment The student must be able to recognize eutocic delivery and the related management of the newborn. • Communicating knowledge and understanding The student must have good skills in exposing the proposed topics, demonstrating that he / she has mastery of obstetric terms • Capacities to continue learning The student must have the ability to learn the basic notions of obstetrics and neonatology.
Criteria for assessment and attribution of the final mark	The exam will consist of an oral test based on the topics developed in class. The verification is contextual with Pathology of animal reproduction. The evaluation acquired in the "Obstetrics" module, together with that acquired in the "Pathology of animal reproduction" module, will contribute to the determination of the final evaluation of the integrated examination of Obstetrics and reproductive pathology, according to an arithmetic mean. The student must demonstrate that they have acquired knowledge of the basic principles of obstetrics; you must also demonstrate that you have mastery of the language of obstetric terms and of the mechanisms that regulate the hormonal response and parturition. During the exam, students will have to discuss the in-depth papers developed during the course. The same will be evaluated by the teacher before the exam and will contribute to the final valuation. The mark is expressed out of thirty and the minimum mark for passing the exam is equal to 18. Praise will be considered only if the student, in addition to responding adequately to all the questions, argues them with extreme precision, excellent exposure and appropriate use of terminology.
Additional information	

U.O. Didattica e servizi agli studenti
Strada prov.le 62 per Casamassima, km. 3,00
70010 Valenzano (Bari) - Italy
Tel. (+39) 080 5443944-45-46 • fax (+39) 080 5443939
francesca.colaianni@uniba.it