ACADEMIC YEAR 2023/2024

General information	
Academic subject	**TECHNIQUES FOR IMPROVING REPRODUCTIVE PERFORMANCES** integrated exam of PRODUCTIVE AND REPRODUCTIVE PERFORMANCES OF FARM ANIMALS
Degree course	Animal Science L38
Academic Year	III year
European Credit Transfer and Accumulation System (ECTS)	2
Language	Italian
Academic calendar (starting and ending date)	II semester: 26/02/2024 - 14/06/2024
Attendance	Mandatory

Professor/ Lecturer	
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Department and address	Campus of Veterinary Medicine, S.P. 62 to Casamassima km 3, 70010 Valenzano (Ba)
Virtual headquarters	Microsoft Teams plataform if necessary
Tutoring (time and day)	Tuesday: 12.30 - 14.30 and Thursday: 14.00 - 15.00

Syllabus	
Learning Objectives	In the farm management of livestock, fertility is the main factor in the health and production management of farms. The future graduate will help the breeder to pursue such economic objectives, through the evaluation of fertility indices and assisted reproduction methods, in collaboration with the veterinarian.
Course prerequisites	Preliminary exams: Animal breeding techniques e Principles of reproduction of domestic animals.
Contents	Frontal lessons: Hormonal conditioning of the estrus cycle of livestock. Embryo transfer and associated techniques. Assisted reproductive technologies. Laboratory: gametes retrieval, oocyte maturation, spermiogram, in vitro fertilization; embryos evaluation
Books and bibliography	Ptaszynska M. "Compendio di riproduzione animale" 10°ed., Ed MSD Animal Health (2012). ▢ Gordon I. "Laboratory production of cattle embryos" CAB Publishing (2003). ▢ Herrich J.R. "Comparative embryo culture" Humana Press (2019).
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
50	*8*	*10*	*32*
ECTS			
2	*1*	*1*	
Teaching strategy	Lectures and exercises at veterinary laboratories		

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Expected learning outcomes	
Knowledge and understanding on:	o The teacher will verify acquired knowledges on physiology and animal reproduction.
Applying knowledge and understanding on:	o The student's ability in connecting all the acquired knowledge will be verified together with the ability of talking on specific subjects.

Soft skills	• *Making informed judgments and choices*
	   o The ability of the student in expressing and debate with the teacher on asked animal reproductive subjects.
	• *Communicating knowledge and understanding*
	   o The teacher will verify the acquisition of health terminology and the ability to communicate with the veterinarian and with the animal breeder.
	• *Capacities to continue learning*
	   o Evaluation of the study method used by the student and the concrete learning of the concepts in relation to the professional maturity achieved.

Assessment and feedback	
Methods of assessment	Oral exam on topics covered by the study program

Evaluation criteria	• *Knowledge and understanding*
	   o The student will have to demonstrate to have acquired knowledge of the main themes of reproduction and animal production.
	• *Applying knowledge and understanding*
	   o The student should have acquired skills for the practical application of the topics covered during lessons.
	• *Autonomy of judgment*
	   o The student should be able to autonomously reason on the topics covered.
	• *Communicating knowledge and understanding*
	   o The student must be able to present the knowledge acquired during the course using the appropriate terminology
	• *Communication skills*
	   o The student must be able to use an appropriate vocabulary
	   o to possess good exposure skills.
	• *Capacities to continue learning*
	   o The student must have acquired an adequate study method that allows him to continue the study independently

Criteria for assessment and attribution of the final mark	In formulating the final judgment for each student, the teacher will consider the commitment shown in passing the final exam by answering the required exam topics.
Additional information	