General information	
Academic subject	**Techniques for improving reproductive performances – (i.c. Productive and reproductive performances of farm animals)**
Degree course	Animal Science
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	2
Language	Italian
Academic calendar (starting and ending date)	II semester
Attendance	Mandatory

Professor/ Lecturer	
Name and Surname	Mario Cinone
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft Teams
Tutoring (time and day)	Tuesday 2.30-4.30 pm – Thursday 9.30-11.30 am

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. Sexing of the sperm and embryos. Paternity test. **Laboratory**: Ovocytes retrieval and maturation: in vitro fertilization; evaluation of embryos. **Hospital or farm:** Evaluation of fertility, synchronization of oestrus, superovulation, embryo transfer.
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	10	25	15
ECTS			
2	1	1	

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Teaching strategy	
	Lectures and exercises at veterinary hospital and livestock farms
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 or written test, 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 • *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 take into account the commitment shown in passing the final exam by answering the required exam topics.
Additional information	