

Module name:	Andrology and artificial insemination	
ECTS:	3	
Learning effects	Course outcomes:	
Knowledge:	1	Knowledge of the principles and techniques of artificial insemination in selected animal species
	2	Knowledge of cryopreservation of semen of different species
	3	Knowledge of the criteria for selecting donors and recipients of embryos
	4	Diagnosis, treatment and prevention of diseases of the male reproductive system
	5	Knowledge of selected techniques of assisted reproduction in animals
	6	Knowledge of relevant legal acts regulating animal breeding
Skills:	1	Conducting the subject clinical examination of the male, with particular emphasis on its usefulness in breeding
	2	Semen collection after preparation of the appropriate instruments. Semen assessment.
	3	Performing artificial insemination procedure for cows, mares, bitches and sows
Competences:	1	Preparation of appropriate certificates for male breeding animals, allowing their participation in large-scale and individual breeding programs
	2	Classification of gametes and embryos intended for use for assisted reproduction techniques
Objectives of the module required to obtain learning effects:	The aim of the course is to acquaint students with basics of andrology and artificial insemination of farm and companion animals. The program includes subjects on veterinary clinical andrology for the treatment of male infertility diseases. In addition, program includes basic knowledge on different techniques of reproductive biotechnology, such as: sperm assessment and preparation for use in assisted reproduction techniques, artificial insemination, embryo transfer, gamete and embryo micromanipulation, and gamete and embryo cryopreservation. Students will receive most recent and evidence- based knowledge in the field, concerning functional anatomy and physiopathology of male reproductive system, endocrine control of testicular function, spermatogenesis and its control, male sexual behaviour, semen analysis, semen preservation, pharmacological control of male and female reproductive function.	
Assessment methods:	2 short written or oral tests, written test	