

## Obstetrics-Gynaecology and Andrology in Companion Animals

(2 CFU; 24 hours: 15 lessons and 9 exercises)

**Course objectives:** The objectives of the course are to provide the basic knowledge necessary to carry out an obstetric-gynecologic and andrologic examination, carry out the necessary collateral tests, issue a diagnosis and propose a therapy, in the different pathologies of the male and female genital system in the companion animals. In addition to this, knowledge will be provided on how to handle induced abortion, techniques for prevention and inhibition of cyclical ovarian activity, diagnosis of pregnancy and identification of the best time for mating or artificial insemination.

### FRONTAL TEACHING

Topics and skills acquired	Topics	Specific content	Hour
<b>1. PRESENTATION OF THE COURSE: BASIC CONCEPTS FOR HOW TO APPROACH THE COURSE (TOTAL HOURS 1)</b>		Presentation of the course, programme, teachers, teaching methods, recommended texts, final exam.	1
<b>2. THE CLINICAL VISIT SPECIALIST (TOTAL HOURS 2)</b>  [acquisition of: a) ability to carry out an obstetrics-gynecological and andrological clinical examination ; b) ability to collect relevant data for understanding reproductive pathologies]	<b><i>The obstetric-gynecological examination</i></b>	Collection of the medical history, physical examination of the genital system, collateral tests useful for diagnostic purposes.  Fertilization, the place of deposition of sperm and its transit through the female genital tract.	1
	<b><i>The andrological examination</i></b>	Collection of the medical history, physical examination of the genital system, collateral tests useful for diagnostic purposes.	1

<b>3. PATHOLOGIES OF THE GENITAL SYSTEM NON-PREGNANT FEMALE (TOTAL HOURS 2)</b>  [acquisition of: basic aspects necessary for their diagnosis, c) therapies for their treatment]	<b><i>Ovarian pathologies</i></b>	Clinical aspects and therapy of the main congenital and acquired pathologies.	2
	<b><i>Uterine pathologies</i></b>		
	<b><i>Vulvar and vaginal pathologies</i></b>		
	<b><i>Mammary pathologies</i></b>		
<b>4. GENITAL DISEASES OF PREGNANT FEMALE (TOTAL 3 HOURS)</b>  [acquisition of: a) necessary basic aspects for their diagnosis, c) therapies for their treatment]	<b><i>Pathologies of pregnancy</i></b>	Clinical aspects and therapy of the main pathologies in the various phases.	3
	<b><i>Parturition Pathologies</i></b>		
	<b><i>Pathologies of the puerperium</i></b>		

<p><b>5. PREGNANCY DIAGNOSIS (TOTAL HOURS 1)</b></p> <p>[acquisition of: a) different techniques used; b) distinctive patterns of gestational age, c) normal and pathological aspects]</p>	<p><b><i>Pregnancy diagnosis techniques</i></b></p>	<p>The most commonly techniques (clinical diagnosis, ultrasound, radiography), the parameters for evaluating normal pregnancy progress and for determining gestational age</p>	<p>1</p>
<p><b>6. INTERRUPTION OF PREGNANCY (TOTAL HOURS 1)</b></p> <p>[acquisition of: a) techniques used; b) advantages e disadvantages, side effects]</p>	<p><b><i>Techniques for abortion induction</i></b></p>	<p>The most common treatments used in pets. When to use these procedures. The advantages and disadvantages using the different techniques</p>	<p>1</p>
<p><b>7. INDUCTION, PREVENTION E SUPPRESSION OF OVARIAN CYCLIC ACTIVITY (TOTAL HOURS 1)</b></p> <p>[acquisition of: a) techniques used; b) advantages e disadvantages, side effects]</p>	<p><b><i>Induction techniques. Prevention and suppression of estrus</i></b></p>	<p>The most common treatments used in pets. The advantages and disadvantages of using these procedures</p>	<p>1</p>
<p><b>8. THE EVALUATION OF OVULATION AND THE OPTIMAL TIME FOR MATING (TOTAL HOURS 1)</b></p> <p>[acquisition of: a) techniques</p>	<p><b><i>Evaluation techniques</i></b></p>	<p>Vaginal cytology, progesterone, endoscopy and other techniques for determining the optimal moment for mating or I.A.</p>	<p>1</p>

<i>used for the evaluation of time of ovulation, b) notions necessary for interpretation of the results]</i>			
<b>9. MALE GENITAL DISEASES (TOTAL 3 HOURS)</b>  [acquisizione di: a) aspetti di base necessari per la loro diagnosi, c) delle terapie per il loro trattamento]	<b><i>Pathologies of the penis</i></b>	Clinical aspects and therapy of the main congenital and acquired pathologies.	3
	<b><i>Testicular pathologies</i></b>		
	<b><i>Accessory gland pathologies</i></b>		
<b>10. MALE AND FEMALE INFERTILITY (TOTAL HOURS 1)</b>  [acquisition of: a) correct method for diagnosis, b) management treatments of infertility]	<b><i>Infertility due to pathologies of the estrous cycle</i></b>	Clinical approach and treatment of infertility.	1
	<b><i>Infertility due to lack of receptivity</i></b>		
	<b><i>Infertility due to incorrect management of mating</i></b>		
	<b><i>Infertility with correct mating management</i></b>	Clinical approach and treatment of infertility.	
	<b><i>Infertility due to spermatic causes</i></b>		
	<b><i>Infertility due to erection problems</i></b>		
	<b><i>Infertility due to ejaculation problems</i></b>		
	<b><i>Infertility due to problems in</i></b>		

	<i>copulation</i>		
<b>PRACTICAL LESSONS</b>			
<b>Topics and skills acquired</b>	<b>Topics</b>	<b>Specific content</b>	<b>Hour</b>
<p><b>1. THE SPECIALISTIC CLINICAL VISIT (TOTAL 2 HOURS)</b></p> <p>[acquisition of: a) ability to carry out a clinical examination obstetrics-gynecology and andrology; b) ability to collect salient data; critical analysis skills; to formulate a diagnosis; propose a therapy; write a report; communicate the patient's health status to the owner; c) ability to perform specific manual skills]</p>	<p><b><i>The obstetric-gynecological and andrological examination</i></b></p>	<p>Esecuzione di una visita specialistica su un animale.</p> <p>Discussione collegiale su come emettere una diagnosi, scegliere gli appropriati esami collaterali, prescrivere una terapia, refertare la visita/esami eseguiti, comunicare al proprietario lo stato di salute del paziente.</p>	1
	<p><b><i>Discussion of clinical cases</i></b></p>	<p>Discussione collegiale su casi clinici presentati dal docente. Verranno valutati in particolare modo gli aspetti legati alla patologia e agli esami collaterali utili alla caratterizzazione della lesione.</p> <p>Verrà inoltre richiesto di emettere una diagnosi, prescrivere una terapia, refertare e comunicare al proprietario lo stato di salute del paziente.</p>	4
	<p><b><i>Clinical Skill Lab</i></b></p>	<p>Carrying out some specialistic manual work on models</p>	4

