

Specification for Gynecology 2025/2026

1-Basic information

Course title	Gynecology							
Course code	TGA.418							
Department/s participating in delivery of the course	Theriogenology							
Number of units/credit hours	Theoretical	1	Practical	1(3)	Other	0	Total	2(4)
Course Type	√ Obligatory Elective							
Academic level at which the course is taught	4 th year							
Semester	Fall							
Academic program	Bachelor of Veterinary medicine (BVM)							
Faculty	Veterinary medicine							
University	Benha University							
Name of course coordinator	Prof. Dr. Mohamed Elarey							
Course Specification Approval Date	Faculty council on 27/8/2025							
Course Specification Approval (Attach the decision/minutes of the department /committee/council)	Department council on 8/7/2025							

2-Course overview

- Course contents written in the program bylaw:

Reproductive Pattern & fertility: Control of reproduction: Infertility in Farm animals.
Reproductive management.

3- Course Learning Outcomes CLOs

	(NARS) outcomes		Course outcomes	
	Code	Text	Code	Text
Knowledge	2.10	Toxicology and forensic	a1	Identify all clinical examination of female

and understanding		medicine, animal medicine, theriogenology and veterinary surgery.	a2	reproductive system. Familiarize with all tools used for the diagnosis and treatment of infertility problems.
			a3	Enumerate all methods used for assessment of fertility and the conception rate.
Intellectual skills	4.3	Inculcate a rigorous approach to problem identification and solving.	b1	Evaluate and maximize the female reproductive potential.
			b2	Optimize the treatment of infertility problems.
	4.5	Remain committed to life – long learning and updating/ upgrading their biochemical sense and clinical skills.	b3	Schedule the breeding soundness.
Professional and practical skills	3.2	Safely, correctly and humanely restrain animals for examination.	c1	Examine the female genital system clinically.
	3.7	Assess and advise about animal management, nutrition under conditions of health and disease, and reproductive efficiency	c2	Operate all clinical practice in farm animals.
			c3	Control an infertility problem at an early stage.
	3.8	Skillfully and appropriately gain and use new information remain current with the emerging biomedical knowledge and therapeutic options	c3	Control an infertility problem at an early stage.
	3.9	Conduct evidence-based problem-solving of field–presented problems tasks	c1	Examine the female genital system clinically.
			c2	Operate all clinical practice in farm animals.
General and transferable skills	5.1	Work under pressure and / or contradictory conditions	d1	Work under pressure during Gynecology lab sessions.
	5.2	Function in a multidisciplinary team	d2	Work in a team during the diagnosis process.
	5.3	Communicate appropriately verbally and nonverbally	d3	Communicate & Cooperate with other colleagues for reaching diagnosis.
	5.5	Search for new information and technology as well as adopt life–long self-learning ethics	d4	Search for new information in the field of Gynecology.

4- Teaching and learning methods

Lectures	√	Discussion & seminar (self-learning)	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√

Others	Field Training
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- Course Schedule:

Number of the week	Scientific content of the course (Course Topics)	Total Weekly Hours	Theoretical teaching (lectures/discussion groups/.....)	Expected number of the Learning Hours		
				Training (Practical/Clinical/.....)	Self-learning (Tasks/Assignments/Projects/...)	Other (to be determined)
W1	- Hormonal control of reproduction1 - Scheme of gynecological examination	2(4)	1	1(3)		0
W2	- Hormonal control of reproduction2 - Physical exam of non-pregnant animal	2(4)	1	1(3)		0
W3	- Puberty and sexual maturity1 - Physical exam of non-pregnant animal	2(4)	1	1(3)	Formative quiz(self-learning)	0
W4	- Puberty and sexual maturity2 - Rectal exam of non-pregnant case	2(4)	1	1(3)		0
W5	- Estrous cycle, ovulation & fertilization1 - Rectal exam of non-pregnant case	2(4)	1	1(3)		0
W6	- Estrous cycle, ovulation & fertilization2 -Vaginal exam. of non-pregnant case	2(4)	1	1(3)	Formative quiz(self-learning)	0
W7	Semester works (one hour exam)					
W8	- Infertility in cattle1 - Vaginal exam. of non-pregnant case	2(4)	1	1(3)		0



W9	- Infertility in cattle ² - Ultrasound exam of non-pregnant case	2(4)	1	1(3)		0
W10	- Infertility in equine ¹ - Diagnosis of pregnancy by rectal	2(4)	1	1(3)		0
W11	- Infertility in equine ² - Diagnosis of pregnancy by rectal	2(4)	1	1(3)	Formative quiz(self-learning)	0
W12	- Estrous detection & synchronization ¹ - Diagnosis of pregnancy by ultrasound	2(4)	1	1(3)		0
W13	- Estrous detection & synchronization ² - Diagnosis of pregnancy by ultrasound	2(4)	1	1(3)	Formative quiz(self-learning)	0
W14	Records & Recording systems	2(4)	1	1(3)		0
	Records & Recording systems	2(4)	1	1(3)		0
W 15	Practical exam					

5- Methods of students' assessment

a- Assessment methods (summative and formative)

1. **Formative assessment:** including (weekly quizzes, homework assignments and surveys).
2. **Summative assessment** including (quizzes, class activates, Mid-term exam, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Assessment Timing (Week Number)	Marks/ Scores	Percentage
Semester work including one hour exam	7 th week	10	10%
Assignments / Project /Portfolio/ Logbook	Throughout semester		
Field training			
Formative assessment	Throughout semester	-	-
Practical exam	15 th week	30	30%

oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Total		100	100%

6- Learning resources and supportive facilities:

Learning resources	Main reference	Student handbook: • Veterinary Gynecology, edited by the staff members
	Essential books (text books)	<ul style="list-style-type: none"> ▪ Essential books (textbooks) ▪ John Dascanio (2014) Equine Reproductive Procedures. ▪ Wolfgang Jochle (2010) Control of Reproductive Functions in Domestic Animals ▪ David E. Noakes (2009) veterinary reproduction and obstetrics ▪ Course notes. ▪ David E. Noakes (2009) veterinary reproduction and obstetrics. ▪ Current therapy in theriogenology, D.A. Morrow
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> ▪ J. Animal reproduction & Fertility. ▪ J. Fertility & Sterility. ▪ www.arabvet.com ▪ www.ekb.eg
	Learning platform	Thinqi
supportive facilities	Devices & instruments	As listing in device guideline
		<ol style="list-style-type: none"> 1. Equipped teaching hall. 2. Equipped Laboratory. 3. Faculty teaching farm 4. Faculty teaching hospital 5. Artificial insemination unit

Matrices:

A- Content and ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Hormonal control of reproduction	a1, a2	b1, b2, b3	c1, c2, c3	d1, d2,
Puberty and sexual maturity	a1, a3	b1, b2, b3	c1, c2, c3	d1, d2, d3, d4
Estrous cycle, ovulation & fertilization	a1, a2, a3	b1, b2	c1, c2	d1, d4

Infertility in cattle	a1, a2, a3	b1, b2, b3	c1, c2, c3	d1, d2, d3, d4
Infertility in equine	a1, a3	b1, b2, b3	c1, c2, c3	d1, d2, d3, d4
Estrous detection & synchronization	a1, a2	b1, b3	c1, c2	d1, d2
Records & Recording systems	a1, a2	b1, b2	c1, c3	d3, d4
Scheme of gynecological examination	a1, a2, a3	b1, b3	c1, c3	d1, d2, d3, d4
Physical exam of non-pregnant animal	a1, a2, a3	b1, b3	c1, c2	d1, d2
Rectal exam of non-pregnant case	a1, a2	b1, b3	c1, c2	d1, d2, d3, d4
Vaginal exam. of non-pregnant case	a1, a2, a3	b1, b2	c1, c2, c3	d1, d2, d3, d4
Ultrasound exam of non-pregnant case	a1, a2, a3	b1, b3	c1, c2	d1, d2, d3, d4
Diagnosis of pregnancy by rectal	a1, a2, a3	b1, b2, b3	c1, c2	d1, d2, d3, d4
Diagnosis of pregnancy by ultrasound	a1, a2, a3	b1, b2, b3	c1, c2	d1, d2, d3, d4
Diagnosis of pregnancy by lab. Tests	a1, a2, a3	b1, b2, b3	c1, c2	d1, d2, d3, d4

B- Teaching and learning methods and ILOs matrix:

ILOs		Teaching and Learning methods						
		L	P&M	D&S	P(TPL)	Ps	Bs	FTP
Knowledge and understanding	a1	√	√	√			√	
	a2	√	√	√			√	
	a3	√	√	√			√	
Intellectual skills	b1	√	√	√		√	√	√
	b2	√	√	√		√	√	√
	b3	√	√	√		√	√	√
Professional and practical skills	c1		√	√	√	√		√
	c2		√	√	√	√		√
	c3		√	√	√	√		√
General skills	d1		√	√		√	√	√
	d2	√	√		√			√
	d3			√		√		√



	d4				√			√
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L: Lecture, **P&M:** Presentations & Movies, **D&S:** Discussions & Seminars (self-learning),
P(TPL): Practical, **Ps:** Problem solving, **Bs:** Brain storming, **FTP:** field trip, Training, Project

C- Assessment methods and ILOs matrix:

ILOs		Assessment method				
		Formative assessment	Semester works (one hour exam)	Oral	Practical	Written
Knowledge and understanding	a1	√	√	√		√
	a2	√	√	√		√
	a3	√	√	√		√
Intellectual skills	b1	√	√	√		√
	b2	√	√	√		√
	b3	√	√	√		√
Professional and practical skills	c1	√		√	√	
	c2	√		√	√	
	c3	√		√	√	
General skills	d1	√	√			
	d2	√	√			
	d3	√	√	√		
	d4	√	√			

Name and Signature
Course Coordinator

Prof. dr. Mohamed Elraey

Name and Signature
Program Coordinator

Prof. Dr. Mahmoud Abouelroos