## Specification for Obstetrics course 2025/2026

#### 1-Basic information

1.	Course title	Theriogenology (Obstetrics)								
2.	Course code	502 (A) III								
3.	<b>Department offering the course</b>	Theriogenology								
4.	Number of hours	Theoretical 2 Practical 3 Other 0 Total 5								
5.	Course Type	$\sqrt{\mathbf{Obligatory}}$	7	Elective	9					
6.	Level	5 <sup>th</sup> year								
7.	Semester	First semester								
8.	Academic program	Bachelor Veterinary medicine (BVM)								
9.	Faculty	Faculty of Veterinary medicine								
10.	University	Benha University								
11.	Name of course coordinator	Prof. dr. Ma	hm	oud Aboue	lroc	S				
12.	<b>Course Specification Approval</b>	Faculty cour	ncil	/ 27-8-2025	5					
14.	Date									
	<b>Course Specification Approval</b>	Department council/								
13.	(Attach the decision/minutes of	of								
13.	the department									
	/committee/council)									

#### 2-Course overview

#### • Course contents written in the program bylaw:

Physiology of pregnancy, pathology of pregnancy, normal parturition, dystocia, normal pueperium, abnormal pueperium, scheme of obstetrical exam, tools and equipments, exam of normal parturient case, examination of dystocia and maneuvers in case of dystocia.

### 3- Intended learning outcomes of the course (ILOs):

	(NARS) outcomes			Course outcomes			
	Code Text		Code	Text			
	2.10	Toxicology and forensic	a1	Conduct clinical examination and			
Knowledge		medicine, animal medicine,		handling of an obstetrical case.			
and		theriogenology and	a2	Follow the pathway of pregnant,			
understanding		veterinary surgery.		parturition and peurperium			
			a3	Plan policy of the future breeding,			

				replacing or culling		
	4.3	Inculcate a rigorous approach	<b>b</b> 1	Acquire good obstetrical approach		
Intellectual		to problem identification and solving.	<b>b2</b>	Analyze an obstetrics problems		
skills	4.5.	Remain committed to life – long learning and updating / upgrading their biochemical sense and clinical skills.	b3	Compare between different methods of breeding policy		
	3.2.	Safely, correctly and humanely restrain animals for examination.	c1	Carry out and handle a female in an obstetrical condition		
Proctical skills	3.7	Assess and advise about animal management, nutrition under conditions of health and disease, and reproductive efficiency	с3	Maintain the female reproductive potential		
Practical skills	3.8.	Skillfully and appropriately gain and use new information remain current with the emerging biomedical knowledge and therapeutic options.	c2 Evaluate and save the dam and offspring from danger			
	3.9.	Conduct evidence-based problem-solving of field-presented problems tasks.	с3	Maintain the female reproductive potential		
	5.1	Work under pressure and / or contradictory conditions	d1	Work under pressure during lab sessions.		
	5.2	Function in a multidisciplinary team	d2	Work in a team during the diagnosis process.		
Transferable skills	5.3	Communicate appropriately verbally and nonverbally	d3	Cooperate with other veterinary hospitals, clinics and units in the field.		
	5.5	Search for new information and technology as well as adopt life—long self learning ethics	d4	Searching skill and Self-learning duri lecture related to his research project.		

4- Teaching and learning methods								
Lectures	√	Discussion & seminar (self-learning)	V	Practical	√			
Presentation & movies	√	Problem solving	√	Brain storming	√			
Others	Field trai	Field training						



#### - Course contents:

	Scientific content of the	Expected number of the Learning Hours							
Number of the Week	course (Course Topics)	Total Weekly hours	Theoretical teaching (lectures/disc ussion groups/)	Training (Practical/ Clinical/)	Self-learning (Tasks/ Assignments/ Projects/)	Other			
W1	Physiology of pregnancy 1	5	2	0		0			
***1	Scheme of obstetrical exam		0	3		0			
W2	Physiology of pregnancy 2	5	2	0		0			
*** 2	Scheme of obstetrical exam		0	3		0			
W3	Physiology of pregnancy 3	5	2	0	Formative quiz(self- learning)	0			
WS	Scheme of obstetrical exam		0	3	learning)	0			
W4	Physiology of pregnancy 4	5	2	0		0			
***	Scheme of obstetrical exam		0	3		0			
W5	Pathology of pregnancy 1	5	2	0		0			
<b>VV</b> 3	Tools & equipments 1		0	3		0			
W6	Pathology of pregnancy 2	5	2	0	Formative	0			
****	Tools & equipments 2		0	3	quiz(self- learning)	0			
W7	Sem	ester wo	cks and Mid-te	erm exam	<u>l</u>	l			
<b>XX</b> 7 <b>O</b>	Pathology of pregnancy 3	5	2	0		0			
W8	Tools & equipments 3		0	3		0			
****	Normal parturition 1	5	2	0		0			
W9	Exam of normal parturient case 1		0	3		0			

W10	Normal parturition 2	5	2	0	Formative quiz(self-	0
W 10	Exam of normal parturient case 2		0	3	learning)	0
W11	Dystocia 1	5	2	0		0
VV 11	Exam of normal parturient case 3		0	3		0
W12	Dystocia 2	5	2	0		0
****	Exam of dystocian case		0	3		0
W13	Normal peurperium	5	2	0	Formative quiz(self-	0
	Exam of dystocian case		0	3	learning)	0
TT74 4	Abnormal peurperium	5	2	0		0
W14	Maneuvers in case of dystocia		0	3		0
W15		Pr	actical exam			

#### 5- Assessment timing and grading:

- 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	Timing	Grade	Percent
Mid-term exam	7 <sup>th</sup> week	15	15%
Formative assessment	Throughout semester	-	-
Practical exam	15 <sup>th</sup> week	20	20%
oral exam	End of semester	15	15%
Written exam	End of semester	50	50%
Total	100	100	

6- Learning resources and supportive facilities:

Learning	Main reference	Student handbook
resources		• John Dascanio (2014) Equine Reproductive procedures.

	Essential books (text books)	<ul> <li>Wolfgang Jochle (2010) Control of Reproductive Functions in Domestic Animals</li> <li>David E. Noakes (2009) veterinary reproduction and obstetrics</li> <li>Current therapy in theriogenology, D.A. Morrow</li> </ul>				
	Periodicals, Web sites, etc	<ul> <li>J. Animal reproduction &amp; Fertility.</li> <li>J. Fertility &amp; Sterility.</li> <li>www.arabvet.com</li> <li>www.ekb.eg</li> </ul>				
	Learning platform	Thinqi				
Supportive Facilities	Devices & instruments	As listing in device guideline  • Equipped teaching hall.  • Equipped Laboratory.  • Faculty teaching farm  • Faculty teaching hospital				

# Matrices: A- Content and ILOs matrix:

Topic	<b>A</b> )	<b>B</b> )	<b>C</b> )	D)	
	Knowledge and	Intellectual	Professional and	General and	
	understanding	skills	practical skills	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,	
Estrous cycle,		b1, ,b3,	c1, c2, c3	<b>d1</b>	
ovulation &	a1, a3				
fertilization					
Infertility in cattle		b1, b3	c1, c2, c3	d3,d4	
intertifity in cattle	a1, a2, a3				
Infertility in equine	a1, a3	b1, b2	c1, c2, c3	d3,d4	
Estrous detection &		b1,b3	c1, c2, c3	d1, d2	
synchronization	a1, a2				
Records & Recording		b1, b2,b3	c1, c2, c3	d1, d2,	
systems	a1, a2				
Scheme of		b1, b2,b3	c1, c2, c3	d1, d2,	
gynecological	a1, a3				
examination					
Physical exam of		b1, b2,b3,	c1, c2, c3	d1, d3,d4	

non-pregnant animal	a1, a2, a3			
Rectal exam of non-	, , , , , , , , , , , , , , , , , , , ,	b1, b2,b3	c1, c2, c3	d3,d4
pregnant case	a1, a2, a3		, ,	
Vaginal exam. of	a1, a3	b1, b2,b3	c1, c2, c3	d3,d4
non-pregnant case				
Ultrasound exam of		b1, b2,b3	c1, c2, c3	d1, d2, d3,d4
non-pregnant case	a1, a2			
Diagnosis of		b1, b2,b3	c1, c2, c3	d1, d2, d3,d4
pregnancy by rectal	a1, a3			
Diagnosis of		b1, ,b3,	c1, c2, c3	d1
pregnancy by	a1, a3			
ultrasound				
Diagnosis of		b1, b3	c1, c2, c3	d3,d4
pregnancy by lab.	a1, a2, a3			
tests				

#### **B-** Teaching and learning methods and ILOs matrix:

Course ILOs		Teaching and Learning methods							
		L	P&M	D&s	P(TPL)	Ps	Bs	FTP	
17 1 1 0	a1	V	V	V			$\sqrt{}$		
Knowledge & understanding	a2			V			$\sqrt{}$		
under standing	a3	$\sqrt{}$		$\sqrt{}$			$\sqrt{}$		
	b1	V	V	V		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	
Intellectual skills	<b>b2</b>		V	V			$\sqrt{}$	V	
	<b>b3</b>	$\sqrt{}$		$\sqrt{}$		$\checkmark$	$\sqrt{}$	$\sqrt{}$	
D e · l l	c1		V	V	V	$\sqrt{}$		$\sqrt{}$	
Professional and practical skills	c2			V		$\sqrt{}$		$\sqrt{}$	
practical skins	c3		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$	
	d1			V		$\sqrt{}$		$\sqrt{}$	
General skills	d2	V		V	V			V	
General skills	d3			V				V	
	d4							$\sqrt{}$	

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:

Course ILOs		Assessment method						
		Formative assessment	Mid-term exam	Oral	Practical	Written		
Knowledge &	a1	$\sqrt{}$		V		$\sqrt{}$		
understanding	a2	V	V	V		$\sqrt{}$		



	a3	V	V	V		$\sqrt{}$
Intellectual skills	<b>b1</b>	$\sqrt{}$				
	<b>b2</b>	$\sqrt{}$				V
	<b>b3</b>		V			1
Professional and practical skills	c1	$\sqrt{}$				
	c2	V			V	
	c3	$\sqrt{}$				
General skills	d1	$\sqrt{}$				
	d2	$\sqrt{}$				
	d3					
	d4					

Name and Signature Course Coordinator

**Prof. Dr. Mahmoud Abouelroos** 

Name and Signature Program Coordinator

**Prof. Dr. Mahmoud Abouelroos**