

Theriogenology A

Benha University

Faculty of veterinary medicine

Course specifications

Programme(s) on which the course is given: **Bachelor of veterinary medical science**

Department offering the course

Theriogenology

Academic year / level

4th year, 1st semester

Date of specification approval ministrel decree No 921, on 15/9/1987

(Then approved in this template by department council on 6-1-2011)

A- Basic Information

Title: **Gynaecology**

Code: **Vet 00643a**

Lecture: **2hour**

Practical: **3 hours**

Total: 5 hours

B- Professional Information

1- Overall aims of course

To identify the female physiological norms, eliminate the infertility problems and to manipulate the female reproductive management.

2- Intended learning outcomes of the course (ILOs)

a- Knowledge and understanding:

By the end of this course, students will be able to:

- a1-Recognize all clinical examination of female reproductive system.
- a2-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.

b- Intellectual skills:

By the end of this course, students will be able to:

- b1-Operate all clinical practice in farm animals.
- b2 manipulation and treatment of infertility problems.
- b3-Schedule the breeding soundness.

c- Professional and practical skills:

By the end of this course, students will be able to

- cl- manipulate with the female genital system clinically.

- c2- control an infertility problem at an early stage.
- c3- Evaluate and maximize the female reproductive potential.

d- General and transferable skills

- d1- How to do a review article on a subject.
- d2- How to read text and reference books related.
- d3- Problem solving skills.
- D4- Working in a team work.

3- Contents

Topic	No. of hours	Lecture	Practical
Hormonal control of reproduction	2	4	-
Puberty and sexual maturity	2	4	-
Estrous cycle, ovulation & fertilization	4	4	-
Infertility in cattle	6	6	-
Infertility in equine	4	4	-
Estrous detection & synchronization	4	4	-
Records & Recording systems	2	4	-
Scheme of gynecological examination	6	-	6
Physical exam of non-pregnant animal	6	-	6
Rectal exam of non-pregnant case	6	-	6
Vaginal exam. of non-pregnant case	3		6
Ultrasound exam of non-pregnant case	3		3
Diagnosis of pregnancy by rectal	6		6
Diagnosis of pregnancy by ultrasound	3		6
Diagnosis of pregnancy by lab. tests	3		6
Total	75	30	45

4- content-ILOs matrix

Content	ILOs			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Hormonal control of reproduction	a1, a2	b1, b2,b3	c1, c2 , c3	d1, d2,
Puberty and		b1, b2,b3	c1, c2 , c3	d1, d2, d3,d4

sexual maturity	a1, a3			
Estrous cycle, ovulation & fertilization	a1, a2, a3	b1, b2,b3	c1, c2 , c3	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 , c3	d1, d2
Records & Recording systems	a1, a2, a3	b1, b2,b3	c1, c2 , c3	d3,d4
Scheme of gynecological examination	a1, a2, a3	b1, b2,b3	c1, c2 , c3	d1, d2, d3,d4
Physical exam of non-pregnant animal	a1, a2, a3	b1, b2,b3	c1, c2 , c3	d1, d2
Rectal exam of non-pregnant case	a1, a2, a3	b1, b2,b3	c1, c2 , c3	
.Vaginal exam. of non-pregnant case	a1, a2, a3	b1, b2,b3	c1, c2 , c3	
Ultrasound exam of non-pregnant case		b1, b2,b3	c1, c2 , c3	
Diagnosis of pregnancy by rectal		b1, b2,b3	c1, c2 , c3	
Diagnosis of pregnancy by ultrasound		b1, b2,b3	c1, c2 , c3	
Diagnosis of pregnancy by lab. tests			c1, c2 , c3	

5- Assessment-ILOS matrix

Assessment	ILOS			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Mid - Term	a1, a2	b1, b2	c2 , c3	
Practical		b1, b2,b3	c1, c2 , c3	

	a1, a3			
Oral	a1, a2, a3	b1, b2,b3	c1, c2 , c3	
Final written exam	a1, a2, a3	b1, b2,b3	c1, c2 , c3	
Assignments (Part of mid term grads)				d1, d2, d3,d4

6- Teaching and learning methods

- 4.1- Data Show
- 4.2- Over-head projector
- 4.3- Slide projector
- 4.4- Video tapes
- 4.5- Clinical cases.
- 4.6- Slaughter house material.

7- Student assessment methods

- Quiz to assess the practical attitude on handling a problem.
- Mid-term exam to assess knowledge and understanding.
- Home work to assess general and transferable skill.
- Case report to assess the clinical approach of a problem.
- Oral exam to assess professional and practical skill.
- Final exam to assess level of understanding the course

Assessment schedule

- Assessment 1..... 12 weeks during the practical sections.**
- Assessment 2..... 1 week after one and half month**
- Assessment 3 4 weeks in the second mid-term**
- Assessment 5 1 week after finishing the practice**
- Assessment 4..... 1 week at the end of the term**
- Assessment 6..... .. 1 week after finishing the term**

Weighting of assessments

- Mid-term examination 10 %**
- Final-term examination..... 50%**
- Oral examination 15%**
- Practical examination 15 %**
- Practical skill 5%**
- Transferable skill..... 5%**
- Total 100 %**

8 List of references

8.1- Course notes

- Veterinary Gynecology edited by the staff members

8.2- Essential books (Text books)

- Applied animal reproduction, H.J.Bearden
- Fertility and infertility in domestic animals, J.A.Laing..

8.3- Recommended books

- Reproduction in farm animals, E.S.E.Hafez
- Current therapy in theriogenology, D.A. Morrow.
- Current therapy in large animal theriogenology, R.S.Youngquist

8.4 Periodicals, Web sites, ...etc

- J. Animal reproduction & Fertility
- J. Fertility & Sterility
- J. Theriogenology
- google.Com
- arabvet.com
- esarf.tripod.com/index.htm

9- Facilities required for teaching and learning

- Aids for clinical examination.
- Farm for animal manipulation
- Vehicle for field investigation
- Network for technology transfer

Course coordinator: Prof Dr. Alla Abd El-Ghfar

Head of department: Prof Dr Mahmoud Abed Abou EL- roos

Date: ٦ / ١ / ٢٠١١