



Physiology of Reproduction

Diploma course specification

1- Basic information

University	University of Sadat City
Faculty:	Veterinary Medicine
Program title:	Diploma of Animal Husbandry
Course title:	Physiology of Reproduction
Course Code	---
Department offering the Course:	Physiology
Contact hours/week:	Lecture: 2 hours/ week
	Practical: --

2- Professional information

1- Overall aims of course

Upon successful completion of the course, the student will be able to:

- ❖ Identify basic and advanced knowledge and skills of reproduction mechanism in mammals and role of endocrine glands in controlling vital processes in mammalian body.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

By the end of this course the graduate should be able to:

- a1- Explain hormone control of reproduction in male and female.
- a2- List classification of animals according to the type of their estrus cycle.
- a3- Define estrus cycle in different animals.
- a4- Explain control secretion of reproductive hormones.
- a5- Recognize reproductive pattern in different mammals.
- a6- Define fertilization mechanism.
- a7- Clarify pregnancy in different mammals.
- a8- Describe mechanism and Control of parturition

b-Intellectual skills

By the end of this course the graduate should be able to :-

- b1- Detect the different reproductive hormonal mechanisms.
- b2- Investigate the different hormonal controls of pregnancy & parturition.

c-Professional and practical skills

By the end of this course the graduate should be able to:

d-General and transferable skill

By the end of studying the course, the student should be able to

- d1- Work effectively as a member of a multidisciplinary team,
- d2- Organize tasks and resources,
- d3- Enhance the use of library services and IT tools
- d4- Search for new information and technologies,
- d5- Adopt lifelong self-learning ethics.
- d6- Practice presentation skills .

3- Topics and contents

Topic	No. of hours		
	Lectures	Practical	Total
Female reproductive system physiology	10	-	10
Male reproductive system physiology	10	-	10
Estrus cycle	10	-	10
spermatogenesis	10	-	10
Hormonal control of spermatogenesis	10	-	10
Reproductive hormones 1	8	-	8
Reproductive hormones 2	10	-	10
Reproductive patterns in different mammals	10	-	10

Pregnancy and parturition	10	-	10
Total	88		88

4- Teaching and learning methods

- 4.1. Lectures.
4.2. Self-learning activities

5-Student assessment

a. ASSESSMENT METHODS:

1- Written examination	For assessment of knowledge, back calling and Intellectual skills
2- Practical examination	-----
3- Oral examination	For assessment of knowledge and Intellectual skills
4- Student activities	For assessment of knowledge and general and transferable skills

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

	K.U (a)	I.S (b)	P.P.S (c)	G.S (d)
Written exam	1-8	1,2		-
Practical exam			-	-
Oral exam	1,2,4,5	1		-
Student activities (assay, seminar, etc.)				1-6

c. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	50%	Marked and signed written paper
Practical exam	-----	-----
Oral exam	30%	Signed list of oral exam marks
Student assignments	20%	Representative samples of presented materials

6- List of references

6.1. Essential books

1- Clinical Veterinary Physiology **by Hassan A. Abdel-Rahman.**

3- Veterinary Reproduction & Obstetrics **by David E. Noakes, Timothy J. Parkinson, Gary C. W. England**

6.2. texts

1-Berne, R.M. & Levy, M.N. (eds) 1996, *Principles of Physiology*, 2nd edition, Mosby, Sydney.

6.3. Journals , Websitesetc

-) Journal of animal science
-) J. of applied physiology
-) J. of veterinary physiology
-) J. of comparative biochemistry & physiology

Course coordinator:

Dr. Sherif M. Shawky

Head of department:

Prof. Dr. Shaaban Gadallah

Diploma of reproduction Matrix alignments of course topics and ILOs

Topic	No. of hours /week		Total hours	Hours for lect.	Hours for pract.	ILOs				T&L. methods				
	Lect.	Pract.				K&U	I.S	P. P. S	G.T.S	Lect.	Pra ct.	Self & active leaning	Audio visual	Case study
Female reproductive system physiology	10		10	10		a2/-a3			d1-6	+				
Male reproductive system physiology	10		10	10		a1-a2-a4/-a5-a6			d1-6	+				
Estrus cycle	10		10	10		a1-a2-a4/-a5-	b1		d1-6	+				
spermatogenesis	10		10	10		a1-a2-a4/-a5-	b1		d1-6	+				
Hormonal control of spermatogenesis	10		10	10		a1-a2-a4/-a5-	b1		d1-6	+				
Reproductive hormones 1	8		8	8		a1-a2-a4/-a5-a6-a7	b1 b2		d1-6	+				
Reproductive hormones 2	10		10	10		a1-a2-a4/-a5-a6-a7	b1 b2		d1-6	+				
Reproductive patterns in different mammals	10		10	10		a1-a2-a4/-a5-a6-a7	b1 b2		d1-6	+				
Pregnancy and parturition	10		10	10		a1-a2-a4/-a5-a6-a7-a8	b1 b2		d1-6	+				