



Course specification

1-Basic information

Course Code:	S4-THER
Course title :	Gynecology & Andrology
Academic year:	4 th academic year
Program title:	Theriogenology
Contact hours/ week	Lecture: 2hrs/week and practical 2hrs/week
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- 1- Introduce the academic background and practical experience about the female genital system
- 2- Monitor fertility and infertility problems in female animals
- 3- Provide the students with information about the male genital system , fertility and infertility problems

3- Intended learning outcomes of course (ILOs)

Knowledge and understanding:

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

- a1- Recognize normal and abnormal female genital system.
- a2- Outline fertility and infertility problems.
- a3- Illustrate different methods of pregnancy diagnosis in different animal species
- a4- Recall the relationship between environment, genetic, pathological and hormonal causes of infertility.
- a5- Mention causes, pathogenesis, diagnosis, prevention and control of infertility problems (anestrus, cystic ovary and Metritis)
- a6- Recognize normal and abnormal male genital system.
- a7- Outline fertility and infertility problems.
- a8- Illustrate different methods of diagnosis of male impotencia ceundi, generandi in different animal species
- a9- Recall the relationship between environment, genetic, pathological and hormonal causes of infertility.
- a10- Describe causes, pathogenesis, diagnosis, prevention and control of diseases causing abortion.

b-Intellectual skills

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

- b1- Differentiate different causes of female infertility problems
- b2- Interpret efficiency of diagnosis and prevention of female reproductive disorders.
- b3- Score incidence of reproductive disorders.



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b4- Discriminate dairy farms, planning of synchronization of estrus and improvement of reproductive and productive performance

b5-Differentiate different causes of male infertility problems

b6- Interpret efficiency of diagnosis and prevention of male reproductive disorders.

b7- Score incidence impotencia eregenti, ceoundi and generandi .

b8- Discriminate sire selection, abortion in dairy farms.

C- Professional and practical skills

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

c1-ability to diagnose pregnancy in different animal species

c2- management of dairy farms by new technologies

c3- Application of modern technology in dairy farms, ultrasonography, embryo transfer.

C4-. Assess the efficiency of modern technology and economic background.

c5- Collect & preserve of diagnostic specimens.

c6- Perform Clinical, post-partum, parasitological, bacteriological, mycological & virological examinations infertile animals.

c7- Apply cattle diseases treatment, hygienic disposal of retained placenta & disinfection of sites of parturition.

c8- ability to diagnose male infertility in different animal species

c9- management of sires by new technologies

c10- Application of modern technology in sire selection

c11- Assess the efficiency of modern technology and economic background.

c12- Collect & preserve of diagnostic specimens.

c13- Perform Clinical, parasitological, bacteriological, mycological & virological examinations for selection of good sire

c14- Apply careful handling of bulls in the site of semen collection or natural mating

d- General and transferable skills

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

d1- Use information technology & information resources.

d2-. Practice continuous self learning & self evaluation.

d3- Work in group.

d4-. Communicate with dairy specialists.

d5- Participate in private business.



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4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical	
(Lec. 2h./week, Pract 2h./week) First semester	- Reproductive anatomy	8	4	4	
	-Endocrinology of reproduction in the female	8	4	4	
	-Estrous cycle, Estrus detection and synchronization	12	6	6	
	- Hormonal causes of infertility	4	2	2	
	- Environmental causes of infertility	4	2	2	
	- Congenital causes of infertility	4	2	2	
	- Infertility in mare and pets	4	2	2	
	- Infertility in Camels	4	2	2	
	- Pathological causes of infertility	4	2	2	
	Total		52	26	26
(Lec. h./week, Pract. h./week) Second semester	- Reproductive anatomy of male animals	8	4	4	
	- Endocrinology of reproduction in the male	4	2	2	
	- Impotentia eregenti (lack of sexual desire)	8	4	4	
	- - impotentia ceundi (inability to copulate)	12	6	6	
	- impotentia generandi (in ability to fertilize)	4	2	2	
	- diseases causing abortion	8	4	4	
	- Infertility in stallion	4	2	2	
	- Infertility in male Camels	4	2	2	
	Total		52	26	26

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows
- 5.2- Self learning by preparing essays and presentations (computer researches and faculty library)
- 5.3- Practical (models, samples of.....).



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6-Teaching and learning methods for the students with disabilities

Office hours and special meeting

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	IS	P&P.S	G.S
written Exam	a2, a3, a4, a7 and a10	b1,b3,b6,b8	c1,c3,c5 c8,c11,c13	d1,d3,d4,d5
Practical Exam	a1,a2 and a3	b2,b4,b7	C2,c4,c7 c9,c10,c14	d2,d4,d5
Oral Exam	a1-a10	b1-b8	C1-c14	d1-d5

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14&15 th
written exams	Managed by the faculty
Oral Exam	Following final exam
Student activities	Along the semester

7.3. Weight of assessments/semester

Assessment	Weight of assessment
Practical exams	30%
written exams	50%
Oral Exam	20%
Student activities	----
total	100%

8- List of references

8.1. Notes and books

Departmental notes on: Gynaecology and andrology

8.2. Essential books:

- Handbook of bovine obstetrics
- Current therapy of theriogenology
- Text veterinary reproduction
- Equine reproduction
- Reproduction in pet animals
- Applied animal reproduction
- Veterinary Andrology



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8.3. Recommended texts

- **Current therapy of theriogenology**

8.4. Journals, Websitesetc

Journals:

- **Reproduction in domestic animals**
- **Theriogenology**
- **Animal reproduction science**
- **Reproductive toxicology**

Journal of fertility, development

Websites:

- WWW.veterinaryreproduction.com/Symptom
 - WWW.andrology.com
 - WWW.fertility.com
 - WWW.endocrinology.com
- WWW.reproductive disorders.net

Course Coordinators

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Head of Department

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	Topics	week	Intended learning outcomes of course (ILOs)			
			K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
	1st semester					
1	- Reproductive anatomy	16	a1&a2	b1	C1	d1
2	- Endocrinology of reproduction in the female	10	a2	b2	C2	D2
3	- Estrous cycle, Estrus detection and synchronization	12	a3	b1	C1&c2	d3 & d5
4	- Hormonal causes of infertility	8	a3&a4	b2	C4&c3	d4
5	- Environmental causes of infertility	8				d1&d2
6	- Congenital causes of infertility	8	a2&a3	b3	C6&c5	d2&d3
7	Infertility in mare and pets	10				
8	- Infertility in Camels	10	a1&a2	b4	C7	d1&d2
9	- Pathological causes of infertility	8				
	2nd semester					
10	- Reproductive anatomy of male animals	16	a6&a7	b5	C8	d3&d4
11	- Endocrinology of reproduction in the male	10	a1&a2			d1&d2&d3
12	- impotentia eregent (lack of sexual desire)	12				
13	- impotentia ceoundi (inability to copulate)	8		b6	C10	d1-d4
14	- impotentia generandi (in ability to fertilize)	8	a8&a9			d1&d2&d3
15	- diseases causing abortion	8	a8&a9	b4	C9	D1&d4 & d5



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16	Infertility in stallion	10	a10&a8	b8	C12&c13	d1&d3
17	- Infertility in male Camels	10				
18	- Reproductive anatomy of male animals	8	a6&a8 & a10	B8	C14	D1&d4



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