



كلية الطب البيطري

وحدة ضمان الجودة والإعتماد

جامعة جنوب الوادي

University: South Valley

Faculty: Veterinary medicine

Programme(s) on which the course is given: Bachelor degree of Veterinary Science

Major or Minor element of program:

Department offering the program: Theriogenology, obstetrics and artificial insemination

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Academic year / Level: 4th year (second semester)

Date of specification approval: 2009 / 2010

A- Basic Information:

Title: Theriogenology in farm animals “Gynaecology & Andrology”

Code:

Credit Hours:

Lecture: 24 Practical: 24 Total: 48

B- Professional Information:

1 – Overall Aims of Course:

1. Attributes of the graduates of veterinary medicine

- 1.1. Be committed to continuous enhancement , coping with the most recent effective and efficient performance standers of veterinary proffesion and gaining community confidence .
- 1.2. Well qualified for analysis of the scientific knowledge about endocrinology of the female and male genital system, reproductive cycle and different affections of the female and male genital system which affect breeding.
- 1.3. Well qualified for diagnosis of any reproductive disturbances for the female or male animal.
- 1.4. Have the ability to select the suitable treatment for any reproductive disturbances in the female or the male animal.
- 1.5. Have a good knowledge about the reproductive technologies and know how to improve the genetic characters of the farm animals.

1.6. Well qualified for selection of the high valuable male animals for the purpose of breeding.

2 – Intended Learning Outcomes of Course (ILOs):

A. Knowledge and Understanding:

- 2.A.1. Graduate of veterinary medical program must acquire the following knowledge and understanding
- 2.A.2. Basic knowledge about the applied functional anatomy of the female and male genital system in farm animals.
- 2.A.3. Basic knowledge about the endocrinology of the female and male genital system in farm animals.
- 2.A.4. Basic knowledge about all affections of the female and male genitalia in farm animals and its possible treatments.
- 2.A.5. Understanding the scientific basis for selection of a high valuable farm animals for the purpose of breeding to improve the genetic characters of these animals.

B. Intellectual Skills:

- 2.B.1. Foster critical thinking and scientific curiosity .
- 2.B.2. To deal with the different types of gynecological cases and how to make correct diagnosis.
- 2.B.3. To select the suitable treatment for any gynecological case.
- 2.B.4. To deal with different types of infertility problems in male farm animals.
- 2.B.5. To deal with all cases of pregnancy diagnosis in farm animals.
- 2.B.6. To manipulate estrus cycle in non pregnant female.

C. Professional and Practical Skills:

- 2.C.1. Assess and advise about animal management , nutrition under conditions of health and disease , and reproductive efficiency .
- 2.C.2. Conduct evidence-based problem-solving of field –presented problems tasks .
- 2.C.3. Professional skills in diagnosis of any field cases by analysis all information obtained from case history, clinical signs, clinical findings “rectal, vaginal & abdominal palpation” & how to make differential diagnosis.

- 2.C.4. Professional skills in selection of male farm animal for the purpose of breeding..
- 2.C.5. Professional skills in examination of infertility cases.
- 2.C.6. Professional skills in examination of pregnant farm animal female.
- 2.C.7. Professional skills in controlling estrous cycle of non pregnant female using the suitable manner
- 2.C.8. Professional skills to apply the suitable gynecological techniques for treatment of gynecological case.

D. General and Transferable Skills:

- 2.D.1. Work under pressure and \ or contradictory condition .
- 2.D.2. function in multidisciplinary team .
- 2.D.3. General skills to write a scientific reports about any gynecological and andrological case.
- 2.D.4. Ability to use printable sheets to report any result.
- 2.D.5. Ability to work in groups by training of the students using group teaching .
- 2.D.6. Ability to use internet to reach scientific information by searching in scientific web sites, and to use computer for preparation of a scientific.
- 2.D.7. General skills in dealing with the animal’s owner with suitable manner

3- Contents:

Theoretical parts

<i>Contents</i>	<i>No. of hours</i>
Gynaecology	
Functional anatomy of the female genital system	2
Reproductive Endocrinology	
Reproductive cycle	2
Reproductive processes	2
Effect of nutrition on reproduction	
Genetic infertility in farm animals	2
Functional disturbances of the female reproductive organs	2
Pathological affections of the female reproductive organs	2
Infertility problems in farm animals	2

<ul style="list-style-type: none"> • Reproductive technologies <ul style="list-style-type: none"> ▪ Induction of ovulation ▪ Synchronization in farm animals 	2
Andrology	
Functional anatomy of the male genital system Endocrinology of the male spermatogenesis	2
<i>Infertility forms of male</i>	
Lack of sexual desire “impotentia errgandi”	2
Inability to copulate “impotentia coeundi”	2
Inability to fertilize “impotentia generandi”	2
Selection of male for breeding purpose	2

Practical parts

<i>Contents</i>	<i>No. of hours</i>
Gynaecology	
Functional anatomy of the female genital system	4
Examination of slaughter house materials of female	
Reproductive cycle	2
Revision	2
Examination of the non pregnant female	2
Examination of the pregnant female “pregnancy diagnosis”	2
Special gynecological techniques	2
Revision	2
Andrology	
Functional anatomy of the male genital system	4
Examination of slaughter house materials of male	
Clinical examination of male in different farm animals	2
General revision	2

4– Teaching and Learning Methods:

- 4.1. Lecturing.
- 4.2. Practical sessions to gain practical skills.
- 4.3. Discussion sessions.
- 4.4. Using case study to train the student how to analyze information and reach the suitable decision.
- 4.5. Using Data show for illustration of wide variety of cases by different scientific and clinical videos.
- 4.6. Using the experimental animals of the⁴veterinary learning farm of the faculty.

5- Student Assessment Methods:

- 5.1. Written exam (essay). to assess a.1, a.2, a.3, a.4, c1, c2, c3,c4,c5 & c6.
- 5.2. Practical exam. to assess b.1, b.2, b.3, b.4, b.5, c.1, c.2, c.3, c4,c5 & c6
- 5.3. Oral exam. to assess a.1, a.2, a.3, a.4, b.1, b.2, b.3 & b.5.
- 5.4. Multiple choice exam. to assess b.1, b.2, b.3, b.4 & b.5.

Assessment Schedule:

Midterm exam (theoretical and practical) Week.....9
Final examheld at the end of the semester
Practical exam..... Week.....14
Oral exam..... held at the end of the semester

Weighting of Assessments:

Mid-Term Examination	20%
Final-term Examination	50%
Oral Examination	10%
Practical Examination	15%
Semester Work	5%
<u>Other types of assessment</u>	-- %
Total	100%

Any formative only assessments

6- List of References:

6.1. Course Note:

Department course notes

6.2. Essential Books (Text Books):

None

6.3. Recommended Books:

6.3.1. **Current therapy in large animal Theriogenology**. By Robert S. Youngquist, Walter R. Threlfael. Saunders Company.

6.3.2. **Veterinary Reproduction and obstetrics**. By D.E. Noaks, G.H. Arthuretc. Saunders Company.

6.3.3. **Fertility and obstetrics in the horses**. By Gary C. W. England. Blackwell Publishing.

6.3.4. Controlled reproduction in cattle and buffaloes. By Ian Gordon. CAB INTERNATIONAL.

6.4. Periodicals, Web Sites,

6.4.1. Learning Reproduction in Farm Animals

URL <http://animalsciences.missouri.edu/reprod/images.htm>

6.4.2. Biology of reproduction

URL <http://www.bioreprod.org/content/80/6/1223.full>

6.4.3. Reproductive Pathology

URL <http://cal.vet.upenn.edu/projects/repropath/index.html>

6.4.4. The Visual guide to bovine obstetrics

URL http://www.drostproject.vetmed.ufl.edu/drost_bovine_contents.html

7- Facilities Required for Teaching and Learning:

- 7.1. Appropriate teaching accommodation like teaching rooms.
- 7.2. Teaching aids like overhead projectors, scientific posters and slaughter house materials.
- 7.3. Data show which is essential for presenting the theoretical and practical courses and to view clinical videos of different cases.
- 7.4. Well prepared laboratory with microscopes.
- 7.5. Veterinary learning farm with different animal species.

Course Coordinator:

(Course Professor): Dr / Mohammed Sabry Aref

Head of Department:

Prof. Dr. Abd elatif Shaker Seddek

Date: 22 / 12 /2009