Theriogenology A

Benha University
Faculty of veterinary medicine

Course specifications

Program (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 20/10/2008)

A- Basic Information

Title: Gynaecology
Lecture: 2 hours
Practical: 3 hours
Total: 5 hours

Code: Vet 00643a

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- Clinical examination of female reproductive system.
a2- Diagnosis and treatment of infertility problems.
a3- Assessment of fertility and the conception rate.

b- Intellectual skills:
By the end of this course, students will be able to:
b1- Good clinical practice.
b2- Good manipulation with an infertility problem.
b3- Good breeding soundness.

c- Professional and practical skills (by the end of this course, students will be able to)
c1- manipulate with the female genital system clinically.
c2- control an infertility problem at an early stage.
c3- 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.

### 3- Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hormonal control of reproduction</td>
<td>2</td>
<td>4</td>
<td>-</td>
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<tr>
<td>Puberty and sexual maturity</td>
<td>2</td>
<td>4</td>
<td>-</td>
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<tr>
<td>Estrous cycle, ovulation &amp; fertilization</td>
<td>4</td>
<td>4</td>
<td>-</td>
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<tr>
<td>Infertility in cattle</td>
<td>6</td>
<td>6</td>
<td>-</td>
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<tr>
<td>Infertility in equine</td>
<td>4</td>
<td>4</td>
<td>-</td>
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<tr>
<td>Estrous detection &amp; synchronization</td>
<td>4</td>
<td>4</td>
<td>-</td>
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<tr>
<td>Records &amp; Recording systems</td>
<td>2</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Scheme of gynecological examination</td>
<td>6</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Physical exam of non-pregnant animal</td>
<td>6</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Rectal exam of non-pregnant case</td>
<td>6</td>
<td>-</td>
<td>6</td>
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<tr>
<td>Vaginal exam of non-pregnant case</td>
<td>3</td>
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<td>6</td>
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<tr>
<td>Ultrasound exam of non-pregnant case</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>Diagnosis of pregnancy by rectal</td>
<td>6</td>
<td>-</td>
<td>6</td>
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<tr>
<td>Diagnosis of pregnancy by ultrasound</td>
<td>3</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Diagnosis of pregnancy by lab. tests</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 75 30 45

### 4- 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.

### 5- Student assessment methods

5.1. Quiz to assess the practical attitude on handling a problem.
5.2. Mid-term exam to assess knowledge and understanding.
5.3. Home work to assess general and transferable skill.
5.4. Case report to assess the clinical approach of a problem.
5.5. Oral exam to assess professional and practical skill.
5.6. 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

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Final-term examination</td>
<td>50%</td>
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<tr>
<td>Oral examination</td>
<td>15%</td>
</tr>
<tr>
<td>Practical examination</td>
<td>20%</td>
</tr>
<tr>
<td>Mid-term examination</td>
<td>15%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

6- List of references

6.1. Course notes
- Veterinary Gynecology edited by the staff members

6.2. Essential books (Text books)
- Applied animal reproduction, H.J.Bearden
- Fertility and infertility in domestic animals, J.A.Laing

6.3. 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

6.4. Periodicals, Web sites ...etc
- J. Animal reproduction & Fertility
- J. Fertility & Sterility
- Theriogenology
- google.Com
- arabvet.com
- esarf.tripod.com/index.htm

7- 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. M.E.A.AbouEl-roos

Head of department
Prof. Dr. Alaa El-Sayed Abdel-Ghaffar

Date of issue: