A. BASIC INFORMATION

Title: Special Surgery and Radiology  
Code: 5ASUR, 5BSUR

Hours:
Lectures  2 hrs/week  Practical  2 hrs/week  Total  120 hrs

B. PROFESSIONAL INFORMATION

1. Overall aims of the course:
The students should understand the principles and apply practices of radiology, lameness, and regional surgery.

2. Intended Learning Outcomes (ILOs) of the Course:

a. Knowledge and Understanding:
   a1 Anesthesia and Tranquilizers in farm Animals.
   a2 Pre-operative techniques.
   a3 General surgery in domestic animals.

b. Intellectual Skills:
   b1 Different methods of analgesia and anesthesia
   b2 General surgery and Regional surgery for farm animals
   b3 Lameness and Radiology

c. Professional and Practical Skills:
   c1 Diagnosis and treatment of some surgical affections in large and small animals.
   c2 Operative surgery related to equine, ruminants and pet animals.

d. General and Transferable Skills:
   d1 Good communication.
   d2 Use of new technique for diagnosis or Digital radiography, ultrasonography, laparoscopy and fluoroscopy.
3. Contents:

<table>
<thead>
<tr>
<th>Topic</th>
<th>1st Semester</th>
<th>No. of hours</th>
<th>Lectures</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>General principles of Radiology (X-ray apparatus – contrast media – special radiography)</td>
<td></td>
<td>60</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Lameness</td>
<td></td>
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<tr>
<td></td>
<td>2nd Semester</td>
<td>60</td>
<td>30</td>
<td>30</td>
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</tbody>
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Regional surgery
- Surgery of Digestive system
- Surgery of Respiratory system
- Surgery of urogenital system
- Ophthalmology & Ear Affections

Total 120 60 60

4. Teaching and Learning Methods:
4.1 Lectures and practical of every topic in the course
4.2 Collection of some information from textbooks
4.3 Field visits (farms, villages and hospitals)
4.4 Study of clinical cases in faculty clinic.

5. Student Assessment Methods:

Exam

5.1 Written Mid-term To assess the ability to understand and remember knowledge, and intellectual skills
5.2 Written Final-term To assess the ability to understand and remember knowledge, and intellectual skills
5.3 Practical Final-term To assess professional and practical skills
5.4 Oral Final-term To assess skills of analysis and discussion

Assessment Schedule (in each semester):

<table>
<thead>
<tr>
<th>Exam</th>
<th>Week</th>
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</thead>
<tbody>
<tr>
<td>Assessment 1 Written Mid-term</td>
<td>8th</td>
</tr>
<tr>
<td>Assessment 2 Written Final-term</td>
<td>16th</td>
</tr>
<tr>
<td>Assessment 3 Practical Final-term</td>
<td>16th</td>
</tr>
<tr>
<td>Assessment 4 Oral Final-term</td>
<td>16th</td>
</tr>
</tbody>
</table>
### Weighing of assessments

<table>
<thead>
<tr>
<th>Exam</th>
<th>Per Semester (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>Written Mid-term</td>
<td>10</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Written Final-term</td>
<td>25</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Practical Final-term</td>
<td>10</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Oral Final-term</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>

6. List of References:

   6.1. Course Notes:
   - Not available

   6.2. Essential Books:
   - Lameness in Horses
   - Lameness in cattle
   - Veterinary operative Surgery
   - Veterinary Radiology
   - Veterinary Anesthesia

   6.3. Recommended Books:
   - Large Animal Surgery
   - Small Animal Surgery

6.4. Periodicals, websites, ..... etc

7. Facilities Required for Teaching and Learning

- Closed circuit TV
- Hydrolic tables
- Surgical instruments
- Datashow and PCs
- Ultrasonography
- Endoscopy
- Bone fixers

Course Coordinator:

Head of Department: Prof. Dr. Hatem Salah Eldin

Date: