Internal Medicine Course Specifications (2012 - 2013)

Program(s) on which the course is given: BVSc
Department offering the program: ---
Department offering the course: Animal Medicine
Major or Minor element of programs: Major
Academic year /Level: 5th Year 2 semesters
Date of specification approval:

A. BASIC INFORMATION

Title: Internal Medicine
Code: 5AMED, 5BMED
Hours:

<table>
<thead>
<tr>
<th>Lectures</th>
<th>2 hrs/week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical</td>
<td>2 hrs/week</td>
</tr>
<tr>
<td>Total</td>
<td>8 hrs</td>
</tr>
</tbody>
</table>

B. PROFESSIONAL INFORMATION

1. Overall aims of the course: Student and graduates should gain the following
   - To support achievement of basic knowledge of normal condition and healthy state of the animals
   - To enable students to provide basic clinical examination for different animal species.
   - To provide students with an appropriate background covering the common and important internal medical diseases in all animal species
   - To enable the development and application of appropriate professional attitudes, communication and problem solving skills.

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

a. Knowledge and Understanding:
   a¹ Determine the most common internal medical diseases affecting all species of the animals, and describe appropriate management for these disorders.
   a² Describe the causes, pathogenesis, clinical symptoms, investigations, treatment and prognosis of the most important internal medical diseases.
   a³ Illustrate the impact of congenital and inherited affections on farm animals.
   a⁴ Describe appropriate measures for health promotion as well as prevention of infection in animals.
   a⁵ Describe appropriate management for abnormalities affecting growth and development.
   a⁶ Cite the management priorities for different animal emergencies

b. Intellectual Skills: Graduate should have:
   b¹ Check vital signs in young and adult animals.
   b² Assess physical development according to standard and recognize abnormalities.
   b³ Perform appropriate clinical assessments for animals.
   b⁴ Recognize and institute appropriate initial management for different animal emergencies.
   b⁵ Construct a proper history for a patient.
   b⁶ Perform an adequate clinical examination for a patient animal and identify deviations from normal.
   b⁷ Assess, classify and describe appropriate treatment for affected animals according to the principles of the integrated management
c. Professional and Practical Skills:

1. Interpret the most important symptoms and signs of disease in animals.
2. Formulate appropriate management plans for individual patients presenting with the most common internal medicine. The management plan should indicate investigations (and how they would be interpreted) as well as treatment.
3. Make decisions regarding common clinical situations using appropriate problem solving skills and relevant ethical principles.

d. General and Transferable Skills and Attitude:

1. Present patient’s data in an organized and informative manner.
2. Communicate effectively with animal’s owners using appropriate communication skills.
3. Demonstrate appropriate professional attitudes and behaviors in different practice situations.

The table is not presented here, but here's an example of what it might look like if it contains data about course contents and learning methods:

### Contents:

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lectures</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digestive system</td>
<td>30</td>
<td>18</td>
<td>12</td>
</tr>
<tr>
<td>Urinary system</td>
<td>22</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Liver diseases</td>
<td>8</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Second term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolic diseases</td>
<td>28</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Nutritional deficiency</td>
<td>26</td>
<td>18</td>
<td>8</td>
</tr>
<tr>
<td>Musculoskeletal system</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120</td>
<td>74</td>
<td>46</td>
</tr>
</tbody>
</table>

4. Teaching and Learning Methods:

1. Lectures
2. Clinical and small group sessions:
   - Clinical training (Clinical demonstrations, practice of skills, and discussions)
   - General experimental animal teaching
   - Outpatient clinic
3. Tutorial classes (small group teaching)

5. Student Assessment Methods:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Per Semester (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Mid-term</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>Written Final-term</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>Practical Final-term</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>Oral Final-term</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>50</td>
<td>100</td>
</tr>
</tbody>
</table>
List of References:

Course Notes:

- Department books

Essential Books:

- Duncan, J. R. and Prasse, K. W. \( (\text{\textregistered} \text{\textcopyright}) \): Veterinary Laboratory Medicine \( (\text{\textregistered}) \) Ed Iowa State University Press, Ames Iowa.
- Martin, W.B. and Aitken, I.D. \( (\text{\textregistered} \text{\textcopyright}) \): Diseases of sheep \( (\text{\textregistered}) \) Ed. Blackwell Science.
- Abd Elhady A. M. \( (\text{\textregistered} \text{\textcopyright}) \): Clinical and biochemical studies of induced pregnancy toxaemia in does. M.D. Thesis, Tanta University.
- Blowey R.W. and Weaver A.W. \( (\text{\textregistered} \text{\textcopyright}) \): A color atlas of diseases and disorders of cattle. Wolfe Publishing Limited.
- Karl A. L. and Mary C. S. \( (\text{\textregistered} \text{\textcopyright}) \): Color atlas of diseases and disorders of the sheep and goats.
- Midhat N. M. \( (\text{\textregistered} \text{\textcopyright}) \): Nutritional problems affecting calcium, phosphorus and magnesium metabolism in Egyptian cattle and buffaloes. Ph D. Zagazig University.
- Philip R.S., Colin D.P. and Alastair I. M. \( (\text{\textregistered} \text{\textcopyright}) \): Cattle Medicine. Manson Publishing/The Veterinary Press.
- Pugh D.G. \( (\text{\textregistered} \text{\textcopyright}) \): Sheep and goat medicine. 1st ed., Saunders An Imprint of Elsevier, Philadelphia, Pennsylvania
- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. \( (\text{\textregistered} \text{\textcopyright}) \): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats \( (\text{\textregistered}) \) Ed. Baillere Tindall, London.
- Rosenberger G. \( (\text{\textregistered} \text{\textcopyright}) \): Clinical examination of cattle. \( (\text{\textregistered}) \)nd Verlag Paul Parey Berlin and Hamburg.

Recommended Books:

- Smith, B.P \( (\text{\textregistered} \text{\textcopyright}) \): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

Periodicals, websites, ..... etc

Facilities Required for Teaching and Learning

- LECTURE HALL: Writing board, overhead and slide projectors are available. Data show is available with prior arrangements.
- SMALL GROUP CLASSES: Each group is present separately in this room.
- LIBRARY: \( (\text{\textregistered}) \) floor of management building in the faculty of veterinary medicine, Elbostan.
- CLINICAL FACILITIES: General and specialized outpatient clinics , Animal farm in the faculty of veterinary medicine, Elbostan. Specialized laboratory units
- SKILLS: Training of students in all branches of internal medicine during conduction of the course.

Course Coordinator: Prof. Dr. M. Y. Nasr

Head of Department: Prof. Dr. M. Y. Nasr

Date: