Course Specification
Animal and Poultry Behavior and Management

Benha University                      Faculty of Veterinary Medicine

Course title: Behavior and management of laboratory animals

Program on which the course is given: Doctor of philosophy degree in veterinary medical science (Animal and Poultry Behavior and Management)

Department offering the course: Department of Animal Hygiene, Behavior and Management.

Date of specification approval: Ministerial Decree No 921, on 15/9/1987.

(Then approved in this recent template by department council on 30/11/2011)

A-Basic information

Title: Animal behavior and management                  Code: 40
Lecture 2 hours
Practical: 2 hours                                          Total: 4 hours/week

B-Professional information

1-Overall aims of course:

After completion the course the postgraduates are expected to be able to

1- Broad knowledge about behavior of laboratory animals
2-Understanding management of laboratory animals
3-Determine health performance of laboratory animals

2-Intended Learning Outcomes of Course (ILOs).

A-Knowledge and understanding:

After completing this course the student will be able to:
a1) Comprehend the normal behaviors, management and health maintenance of laboratory animals

a2) Know the principle of welfare, production and health maintenance of laboratory animals

a3) know the basics of laws and ethical codes relevant to animals and food hygiene.

a4) recognize animal welfare which in turn will be reflected in form of high performance and productivity of the animal.

a5) Knowing the actual aetiological factors which can induce behavioral disorders in laboratory animals

a6) Studying the proper management of laboratory animals which in turn will be reflected in the form of high performance and productivity of the animals

a7) Assess the different behavior disorders of laboratory animals

a8) list freedoms of animals in order to avoid suffering and sustain fitness.

B- Intellectual skills:

B1- Create new methods to control and prevent behavioral disorders in laboratory animals.

B2- invent new instruments and devices used for treatment of behavioral disorder in animals.

B3- modify systems of management in order to obtain high performance and productivity.

B4- assess and criticize, how data given in animal behavior are derived.

B5- analyze the body language of laboratory animals in order to fulfill the useful requirements of animals.

C- Professional and practical skills:

C.1) Assess and advice about animal management and reproductive efficiency.

C.2) Gain skillfully and appropriately use new information in the field of animal behavior.

C.3) utilize appropriate safety procedures to protect clients and co-workers.
C.4) scan the actual etiological factors which can induce behavioral disorders in animals.
C.5) solve the different behavior disorder or vices in laboratory animals.

D- General and transferable skills:
After successful completion of the course, the students should be able to:
   d.1. conduct research papers and project.
   d.2. function in a multidisciplinary team during conducting a research paper and during laboratory work.
   d.3. search about new information.
   d.4. present a scientific study.

3- Contents:

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Behaviour and management of laboratory animals</td>
<td>50</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>2- Behavior and management of laboratory animals</td>
<td>20</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>3- Behavior and management of laboratory animals</td>
<td>25</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>4- Types of restraint</td>
<td>20</td>
<td>-</td>
<td>20</td>
</tr>
<tr>
<td>5-Animal identification</td>
<td>15</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>6-Body conformation</td>
<td>15</td>
<td>-</td>
<td>15</td>
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<tr>
<td>7- Administration of medicine to laboratory</td>
<td>15</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>8-Signs of health of laboratory animals</td>
<td>15</td>
<td>-</td>
<td>15</td>
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<tr>
<td>9-Destroying</td>
<td>5</td>
<td>-</td>
<td>5</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>180</strong></td>
<td><strong>90</strong></td>
<td><strong>90</strong></td>
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4- Teaching and learning methods:
Lectures, farm visits and practical sessions in which the following facilities are used:
Lectures using data show beside the classical teaching methods.

Practical studies          Case study
Essay about behavior and management of laboratory animals.

4.1- Farm animals. 4.2-Slides 4.3 CD 4.4 Video tapes

5-Student assessment methods:

5.1- Semester work to assess student ability discussion his attendants.

5.2- Practical exam to assess professional and practical skills.

5.3- Oral exam to assess ability to demonstrate his knowledge.

5.4- Written examination to assess different skills

Assessment Schedule:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Assessment 1</td>
<td>15 Week.</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>44 Week.</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>45 Week</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>45 Week</td>
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</tbody>
</table>

Weighting of assessments:

- Final-term examination: 50%
- Oral examination: 20%
- Practical examination: 20%
- Semester work: 10%
- Other types of assessment: 0%

Total: 100%

Assessment of program intended learning outcomes.

<table>
<thead>
<tr>
<th>Tool or method</th>
<th>ILOs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Written</td>
<td>A1,a2,a4,a6,b1,b2,c1</td>
</tr>
<tr>
<td>2-Oral</td>
<td>A6,a7,a9,b1,b2</td>
</tr>
<tr>
<td>3-Practical</td>
<td>A7,b4,c2</td>
</tr>
<tr>
<td>4-Seminar</td>
<td>A6,a9,b1,b2</td>
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</tbody>
</table>
6-List of references

6.1- Course notes:
   A concise guide of animal and poultry behavior and management

6.2- Essential books (Textbooks)

6.3-Recommended books:

6.4 Periodicals, web sites, ... etc.
   2- Veterinary Records.

7-Facilities required for teaching and learning:
   1- Laboratory animals. 2-Data show and computer lab. 3-Library
   4- Different types of instruments for restraint of animals.

Course Coordinator:
Prof Dr Mohamed Morsy Karosa

Head of the Department:
Prof. Dr Mohamed Morsy Karosa.

Date: 30/11/2011