Course Specifications

Master Degree

University: Benha.

Faculty: Veterinary Medicine.

Course Title: Poultry and rabbit nutrition (advanced).

Code: 44.

Department offering the course: Nutrition and Clinical Nutrition.

Program(s) on which the course is given: Master degree in veterinary science (Nutrition and Clinical Nutrition).

Academic Year / level: 2010-2011.

Date of specification approval: 10 / 1 / 2011.

A- Basic Information

Title: Poultry and rabbit nutrition.

Credit Hours:

Lecture: 2  Tutorial: 2  Practical:2  Total: 4 h /w

B- Professional Information

1- Overall Aims of the Course: The postgraduate student gain first the experience in collecting information from different sources, develop research skills, competency in modern laboratory technology and provide the students with skills in interpretation of published literature to prepare them to incorporate and integrate new developments into research and clinical activities. In addition to decision making in different areas of specialization.

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

A- knowledge and Understanding

A.1. Define the different technical terms in animal nutrition.

A.2. Understand the basic knowledge about digestion in poultry and rabbits.
A.3. Illustrate the basic knowledge about nutrient requirements of poultry and rabbits.
A.4. List the nutrient functions and values for poultry and rabbits.
A.5. Mention Knowledge of best recent practice in poultry and rabbits nutrition.
A.6. Mention the source of these nutrients in the available different feedstuffs.
A.7. Realize how can write a thesis and research proposal.
A.8. Identify the plan work with the governmental frame work regulation in nutrition experiments.
A.9. Relate the ability to coal late different pieces of accurate information.

**B-Intellectual skills:**

B.1. Design a research proposal in the area of specialization
B.2. Estimate, Identify and Evaluate the articles and collected research papers in poultry and rabbits nutrition.
B.3. Criticize and Assess their own research data regarding the research area.
B.4. Comment accurately up on the obtained results on his given results.
B.5. Determine area where further research is necessary and be aware beyond current ethical codes list.

**C-Professional and practical skills:**

C.1. Write Correctively the methods used in the experimental design.
C.2. Perform relevant statistical analysis on data obtained from own research which support his nutritional skills.
C.3. Conduct research project using appropriate range of Experimental techniques:

**D-General and transferable skills:**

D.1. Be a successful member in animal nutrition team.
D.2. Illustrate a scientific study in the nutritional laboratories.
D.3. Set the basis of the scientific nutrition terms.
D.4. Have problem solving skills.
D.5. Communication skills.
D.6. Information technology skills.
D.7. Continuous self learning (life long learning).
D.8. Focus in his role in community development.
E- **Attitude:**

E.1. Scientific Integrity.

E. 2. Know the rules and ethics of Scientific research

3 – **CONTENTS:**

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digestion of feed in poultry</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Digestion of feed in rabbits</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Sources of nutrients for poultry and rabbits</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Nutrient requirements for broiler chickens</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Nutrient requirements for turkeys</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Nutrient requirements for ducks</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Nutrient requirements for geese</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Nutrient requirements for quail</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Nutrient requirements for rabbits</td>
<td>8</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Deficiency of nutrients in poultry and rabbits</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Ration formulation for poultry</td>
<td>6</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Ration formulation for rabbits</td>
<td>6</td>
<td>2</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>60</strong></td>
<td><strong>30</strong></td>
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4- **Teaching and learning methods:**

4.1. Lectures.

4.2. Practical demonstration of chemical analysis of feedstuffs.

4.3. Practical demonstration of feedstuffs.

5- **Student assessment methods:**

5.1. **Semester work**

To assess student ability for discussion of his attendants.

5.2. **Oral Examination**

To assess student ability to demonstrate his knowledge

5.3. **Practical**

To assess practical skills.
**Exam**

5.4. **Final Exam**  
To assess different skills.

**Assessment Schedule:**

<table>
<thead>
<tr>
<th>Assessment 1:</th>
<th>Week 7</th>
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<tbody>
<tr>
<td>Assessment 2:</td>
<td>Week 14</td>
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<tr>
<td>Assessment 3:</td>
<td>Week 15</td>
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<tr>
<td>Assessment 4:</td>
<td>Week 16</td>
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</table>

**Weighing of assessments:**

<table>
<thead>
<tr>
<th>Mid - Term Examinations</th>
<th>10 %</th>
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</thead>
<tbody>
<tr>
<td>Oral examination</td>
<td>10 %</td>
</tr>
<tr>
<td>Practical examination</td>
<td>15 %</td>
</tr>
<tr>
<td>Semester work</td>
<td>15 %</td>
</tr>
<tr>
<td>Final- term examination</td>
<td>50 %</td>
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<tr>
<td>Other types of assessment</td>
<td>------</td>
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<tr>
<td>Total</td>
<td>100 %</td>
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**6- List of References:**

6.1. **Course Notes:** Animal nutrition (part 1, 2 and practical part)

6.2. **Essential books (Text books):**


6.4. Periodicals, Web sites, etc:

- Nutritional abstract and review
- Veterinary bulletin.
- Archives of Animal Nutrition

7- Facilities Required for Teaching and Learning:

7.1. Data show and computer.
7.2. Nutritional laboratory.
7.4. Library.

**Course Coordinators (Teaching Committee):**

1. Prof. Dr/ Naser El-Sayed Abdel-Mottaleb Khedr
2. Prof. Dr. Kamilia Mohamed Abde-Monem Zahran
3. Dr/ Tahia Elsayed Ahmed.
4. Dr../ Fathy Attia Ismaiel Abdel-Fattah

**Head of Biochemistry Department:**

Prof. Dr / Naser El-Sayed Abdel-Mottaleb Khedr

**Date:** 5 / 5 / 2011.