# COURSE SPECIFICATIONS

**Master Degree**

**University:** Benha.

**Faculty:** Veterinary Medicine.

**Course Title:** Biochemistry Of Hormones and Reproduction.

**Code:** 30.

**Department offering the course:** Biochemistry Department.

**Program (s) on which the course is given:** Master degree in veterinary science (Biochemistry).

**Academic Year / level:** 2010-2011.

**Date of specification approval:** 10 / 1/2010.

### A- Basic Information

**Title:** Biochemistry Of Hormones and Reproduction.

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<th>Lecture</th>
<th>Practical</th>
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### B- Professional Information

**1- Overall Aims of the Course:** The postgraduate student:

1. gain first the experience in collecting information from different sources
2. develop skills in the field of hormones analysis.
3. identify a laboratory technology by using a modern tools.
4. provide the students a way of interpretation of their data
5. incorporate and integrate new developments into research and clinical activities.

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

#### A- knowledge and Understanding

After the completion of these courses the student should be able to:

A.1. Define the different Scientific terms in Hormones.
A.2. Understand the basic knowledge about Hormones
A.3. Illustrate the basic knowledge about their chemical composition.
A.4. Summarize the role of Hormones in the living cells.
A.6. mention a different types of hormones.
A.7. Identify the pancreatic hormones
a.8. identify the adrenal hormones
a.9. describe the metabolism of hormones

**B-Intellectual skills:**

After the completion of these courses the student should be able to:

B.1. Design a research proposal in the field of hormones research.
B.2. Estimate hormones in the blood.
B.3. analyze the results provided from their research.
B.4. judge their results.
B.5. determined the different hormonal types produced from endocrine glands.
B.6. Criticize and Assess their own research data regarding the research area.
B.7. Comment accurately up on the obtained results on his given results.

**C-Professional and practical skills:**

After the completion of these courses the student should be able to:

C1 diagnosis a different hormonal disorders

C.2. Write Correctively the report of the Biochemical reactions that have been tested.
C.3. calculate their results.
C.4. solve a problem in the area of hormones
C.5. Perform relevant statistical analysis on data obtained from own research which support his Biochemical skills
C.6. Conduct research project using appropriate range of Experimental techniques

**D-General and transferable skills:**

After a completion of these courses the student should be able to:

D.1. successful member chemist.
D.2. Illustrate a scientific study in the Biochemistry laboratories.
D.3. Set the basis of the scientific chemists' 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:**

After the students fishing this courses they should be able to:

E.1. have a 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>
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<tr>
<td>Classification and mode of hormonal action</td>
<td>39</td>
<td>23</td>
<td>16</td>
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<td><strong>176</strong></td>
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4- Teaching and learning methods:

4.1. Lectures.
4.2. Practical demonstration of chemical reactions.
4.3. Visiting the Central Laboratory.
4.4. Reports.

5- Student assessment methods:

5.1. Research 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 Exam
To assess Practical skills.

### 5.4. written Exam
To assess different skills.

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<tr>
<td>Mid-year examination</td>
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<td>Oral examination</td>
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<td>Research work</td>
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<td>Final- examination</td>
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### 6- List of References:

#### 6.1. Course Notes:
A concise Guide of General Biochemistry

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

  


#### 6.3. Recommended books:


#### 6.4. Periodicals, Web sites, etc:
- Journal of Biochemistry.
7- Facilities Required for Teaching and Learning:

7.1. Data show and computer.
7.2. Biochemistry Laboratory.
7.3. Laboratory animals.
7.4. Library.

Course Coordinators (Teaching Committee):

1. Prof. Dr/ Sami Ali Hussein Aziza
2. Assistant Prof./ Yakout A. El-Senosy
3. Assistant Prof./ Omnia Mahmoud Abd El-Hamid

Head of Biochemistry Department:

Prof. Dr/ Hussein Abd El-Maksoud Ali Abd El-Maksoud

Date: 10 / 1 / 2010.
Matrix of the course no:30 (biochemistry of hormones and reproduction)

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