



**Beni Suef University**  
**Faculty of Veterinary Medicine**  
**Department of Animal Medicine/ Veterinary Internal Medicine**

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**Program Specification for Master Degree**  
**2017-2018**

**A-Basic information:**

1. **Program title:** *MVSC. Code: M-INMD*
2. **Specialty:** *Veterinary Internal Medicine*
3. **Program type:** *Single*
4. **Department offering program:** *Animal Medicine*
5. **Academic year:** *2017-2018*
6. **Approval date of Department Council:**
7. **Approval date of Faculty Council:**
8. **External evaluator:**

**B-Professional information:**

**1- Overall aims of the program:**

- 1-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.
- 2-Define the disease problem, outline the cause, understand the pathophysiology, collect and interpret the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis, finally describe the treatment and the methods of control and prevention of the disease.
- 3- Understand the principles of scientific writing, develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.

**2- Intended learning outcomes of course (ILOs):**

**a- Knowledge and understanding:**

**On successful completion of this program the graduate should be able to :**

- a1-Illustrate the pathophysiology of the diseases or disease problems.
- a2-Diagnose, treat and deal with the disease problem in farm animals and pets (according Animal species he studied).
- a3-Analyze the data and find correlation to take a decision.
- a4-acquire essential data concerning the diseases causing similar problems.

**b- Intellectual skills:**

**On successful completion of master program the graduate should be able to:**

- b1-Identify, conceptualize and define research problems and questions.
- b2-interpret and analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-able to make up a diagnosis, prognosis and treatment and management of the disease conditions.
- b4-Critically evaluate their own research data and develop new approach to solving their research questions
- b5-Develop creative approaches to solving technical problems or issues associate with running and researches project.
- b6-Identify, summarize and evaluate prior researches finding in a specific area.

**c- Professional and practical skills:**

**On successful completion of this program the graduate should be able to:**

- c1-Apply the principles of good experimental design and analysis to their own research project.
- c2-Select and perform relevant statistical analysis on data obtained for their own research .
- c3-Perform the proper traditional clinical examination in individual animal and in herd.
- C4-Collect the data and the samples for his research project and perform review or essays on his research topic.

**d- General and transferable skills:**

**On successful completion of this program the graduate should be able to:**

- d1-Demonstrate problem solving by using IT.
- d2- Own Self-evaluation and need assessment.
- d3- Utilize different available resources for efficient obtaining of knowledge and information.
- d4- Issue the regulations and indicators for performance evaluation.
- d5- Mange time efficiently and work in research groups.

**3-Academic standers:**

\* The faculty mission, vision and strategic objective are confirmed to the academic standard. The learning outcomes are inline with the department and the faculty mission.

\* Postgraduates NARS (March 2009) Master degree chapter issued by national authority for quality assurance and accreditation of education (NAQAAE) and Veterinary medicine post graduate academic standards (ARS) for the faculty of veterinary medicine, Beni-Suef University, Beni-Suef, Egypt are selected to confirm the appropriateness of the academic standards.

#### 4- Program Structure and Contents

##### Program duration:

\*At least two academic years from the approval of registration by the Faculty Council and maximum four years.

\*The faculty council has the right to give the applicant another period not exceed two years according to the supervisor request.

\*The first year is for preliminary courses study, while the second year is for researches and preparation of the Master Thesis.

##### A- Program structure: Hours/ week:

###### Basic course:-

|             |   |           |   |       |    |
|-------------|---|-----------|---|-------|----|
| Theoretical | 4 | Practical | 7 | Total | 11 |
|-------------|---|-----------|---|-------|----|

###### Subsidiary courses:-

|             |     |           |     |       |       |
|-------------|-----|-----------|-----|-------|-------|
| Theoretical | 4-8 | Practical | 6-8 | Total | 10-16 |
|-------------|-----|-----------|-----|-------|-------|

☒ **Master Thesis: completed during the second academic year.**

##### B- Program courses:

###### 1- Basic courses

| Code | Course title            | Hours /week |           | Academic year    | Teaching duration |
|------|-------------------------|-------------|-----------|------------------|-------------------|
|      |                         | theoretical | practical |                  |                   |
|      | Master Principal course | 3           | 4         | Preliminary year | 36 weeks          |
|      | Research methods        | 1           | 3         | Preliminary year | 36 weeks          |

###### 2-subsidiary courses

| Code | Course title                                                                                                                     | Hours /week |           | Academic year    | Semester |
|------|----------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------------------|----------|
|      |                                                                                                                                  | theoretical | practical |                  |          |
|      | Selected (3-5) courses depending on the thesis title from the various Faculty Master courses other than specialty of the Master. | 5-6         | 6-9       | Preliminary year | 36 weeks |

#### **D- Courses contents**

**See master courses specification:**

#### **5- Program Admission Requirements**

a- According to the Faculty of Veterinary Medicine, Beni-Suef University Bylaws for Post Graduate Programs, applicants should have BVSc., from an Egyptian University or equivalent degree from any approved university, with at least general grade (Good) and (Very Good) in the specialized subject.

b- Also, if the student has postgraduate diploma in one specialization of total (3 hours) at least with general grade (Good) and (Very good) in the specialized subject.

c- According to Beni-Suef University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects:

1- English language (Toefl or equivalent degree)

2- Computer skills (ICDL) or equivalent computer course.

d- Admission to the program is open during March and September annually after at least one year from the BVSc. degree.

#### **6. Regulations for Progression and Program Completion**

After finishing the preliminary courses, the graduate student will be eligible to sit for the examination according to the following roles:

| No. of course teaching hours/ week | Allowed time for written exam. | Degree      |                         |
|------------------------------------|--------------------------------|-------------|-------------------------|
|                                    |                                | Theoretical | Practical and oral exam |
| ≥ 3 hours                          | 3 hours                        | 50          | 50                      |
| ≤ 3 hours                          | 2 hours                        | 25          | 25                      |

- It is mandatory to pass all the courses each chance except biostatic (212)

-The passing mark in each exam is ≥ 60%.

-The faculty council has the right to deprive the applicant from entering the exams if his attendance courses are less than 75%.

**Qualification grades:**

|                  |                         |
|------------------|-------------------------|
| <b>Excellent</b> | $\geq 90$               |
| <b>Very good</b> | $\geq 80$               |
| <b>Good</b>      | $\geq 70$               |
| <b>Pass</b>      | $\geq 60$               |
| <b>Failed</b>    | 45 to less than 60 weak |
|                  | Less than 45 Very weak  |

-After passing, the graduate starts research for Master Thesis at the beginning of the second year.

-The candidate will receive his degree after evaluating and approving the thesis by a committee according to University regulations.

-The applicant should publish at least one scientific paper from the thesis in local or international journals

## 7-Graduate student assessment

### A: Assessment Tools

According the Faculty of Veterinary Medicine, Beni-Suef University Bylaws for Post Graduate, students should be assessed at the end of preliminary year and the thesis should be evaluated and approved by a committee according to University regulations.

#### 1-Preliminary year

| <b>Assessments methods for each course</b> | <b>practical exam</b>  | <b>Oral exam</b>       | <b>Written exam</b>    |
|--------------------------------------------|------------------------|------------------------|------------------------|
| <b>Time of Assessments</b>                 | By the end of the year | By the end of the year | By the end of the year |
| <b>Marks</b>                               | 25                     | 25                     | 50                     |

#### 2-Master Thesis:

- All master-degree students should prepare a thesis in Veterinary Internal Medicine.
- The department council must approve the protocol (plan) of the research, and then must be approved by the committee of graduate studies and research in the college as well as the college council.
- The thesis is supervised by one or more internal veterinary medicine, faculty of veterinary medicine, Beni-Suef University-staff members and may include other specialties according to the nature of the research.
- The thesis should be evaluated and approved by a committee according to University regulations.

- The applicant should publish at least one scientific paper from the thesis in local or international journals.

**B- Matrix alignment of the measured ILOs:**

| Assessments methods | Matrix alignment of the measured ILOs |                   |            |             |
|---------------------|---------------------------------------|-------------------|------------|-------------|
|                     | K&U (a)                               | I.S (b)           | P&P. S (c) | G&T. S (d)  |
| written exam        | a1,a3,a4.                             | b1,b2,b3,b4,b5,b6 | c1,c3,c4,  |             |
| Practical exam      | a3,a4                                 | b1,b2,b4          | c1,c2,c5   | d1,d2       |
| Oral exam           | a1,a2,a3,a4.                          | b1,b2,b3          | c1,c2      | d1,d3,d4,5, |

**Master Program Specification Matrix (Program Courses with ILOS)**

| <b>Program ILOs</b>                      |    | <b>Courses</b> |
|------------------------------------------|----|----------------|
| <b>Knowledge and understanding</b>       | a1 | M-130 to M-139 |
|                                          | a2 | M-130 to M-139 |
|                                          | a3 | M-130 to M-139 |
|                                          | a4 | M-130 to M-139 |
| <b>Intellectual skills</b>               | b1 | M-130 to M-139 |
|                                          | b2 | M-130 to M-139 |
|                                          | b3 | M-130 to M-139 |
|                                          | b4 | Thesis         |
|                                          | b5 | Thesis         |
|                                          | b6 | Thesis         |
| <b>Professional and practical skills</b> | c1 | Thesis         |
|                                          | c2 | Thesis         |
|                                          | c3 | M-130 to M-139 |
|                                          | c4 | Thesis         |
| <b>General and transferable skills</b>   | d1 | M-130 to M-139 |
|                                          | d2 | M-130 to M-139 |
|                                          | d3 | M-130 to M-139 |
|                                          | d4 | M-130 to M-139 |
|                                          | d5 | M-130 to M-139 |
|                                          | d6 | M-130 to M-139 |

## Master Program Specification Matrix (Program ILOS with Academic standers ARS)

| Academic standers<br><br>Program ILOs |    | Knowledge and understanding |    |    |    |    |    | Intellectual skills |    |    |    |    |    | Professional and practical skills |    |    |    |    |    | General and transferable skills |    |    |    |    |
|---------------------------------------|----|-----------------------------|----|----|----|----|----|---------------------|----|----|----|----|----|-----------------------------------|----|----|----|----|----|---------------------------------|----|----|----|----|
|                                       |    | a1                          | a2 | a3 | a4 | a5 | a6 | b1                  | b2 | b3 | b4 | b5 | b6 | c1                                | c2 | c3 | c4 | c5 | c6 | d1                              | d2 | d3 | d4 | d5 |
| Knowledge and understanding           | a1 | √                           |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | a2 |                             | √  |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | a3 |                             |    | √  |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | a4 |                             |    |    | √  |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | a5 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
| Intellectual skills                   | b1 |                             |    |    |    |    |    | √                   |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | b2 |                             |    |    |    |    |    |                     | √  |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | b3 |                             |    |    |    |    |    |                     |    | √  |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | b4 |                             |    |    |    |    |    |                     |    |    | √  |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | b5 |                             |    |    |    |    |    |                     |    |    |    | √  |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | b6 |                             |    |    |    |    |    |                     |    |    |    |    | √  |                                   |    |    |    |    |    |                                 |    |    |    |    |
| Professional and practical skills     | c1 |                             |    |    |    |    |    |                     |    |    |    |    |    | √                                 |    |    |    |    |    |                                 |    |    |    |    |
|                                       | c2 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   | √  |    |    |    |    |                                 |    |    |    |    |
|                                       | c3 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    | √  |    |    |    |                                 |    |    |    |    |
|                                       | c4 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    | √  |    |    |                                 |    |    |    |    |
|                                       | c5 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
|                                       | c6 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    |                                 |    |    |    |    |
| General and                           | d1 |                             |    |    |    |    |    |                     |    |    |    |    |    |                                   |    |    |    |    |    | √                               |    |    |    |    |

|                        |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
|------------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| transferable<br>skills | d2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | √ |   |   |   |
|                        | d3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | √ |   |   |
|                        | d4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   | √ |   |
|                        | d5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   | √ |
|                        | d6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   | √ |

Course coordinator:

Head of the Department:

### Program aims – ILOS Matrix

| Program ILOs                |                                                                                                                      | Program aims                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program ILOS                |                                                                                                                      | 1-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions. | 2-Define the disease problem, outline the cause, understand the pathophysiology, collect and interpret the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis, finally describe the treatment and the methods of control and prevention of the disease. | 3- Understand the principles of scientific writing, develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data. |
| Knowledge and understanding | a1-Illustrate the pathophysiology of the diseases or disease problems.                                               | √                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|                             | a2-Diagnose, treat and deal with the disease problem in farm animals and pets (according Animal species he studied). | √                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|                             | a3-Analyze the data and find correlation to take a decision.                                                         | √                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|                             | a4-acquire essential data concerning the diseases causing similar problems.                                          | √                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
| Intellectual skills         | b1-Identify, conceptualize and define research problems and questions.                                               | √                                                                                                                                                                                    | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
|                             | b2-interpret and analyze the date, and results of clinical examinations, lab and different modalities of diagnosis.  |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
|                             | b3-able to make up a diagnosis, prognosis and treatment and management of the disease conditions.                    |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
|                             | b4-Critically evaluate their own research data and develop new approach to solving their research questions          |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
|                             | b5-Develop creative approaches to solving                                                                            |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |

| Program ILOs                      |                                                                                                                  | Program aims                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program ILOS                      |                                                                                                                  | 1-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions. | 2-Define the disease problem, outline the cause, understand the pathophysiology, collect and interpret the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis, finally describe the treatment and the methods of control and prevention of the disease. | 3- Understand the principles of scientific writing, develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data. |
|                                   | technical problems or issues associate with running and researches project.                                      |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|                                   | b6-Identify, summarize and evaluate prior researches finding in a specific area.                                 |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
| Practical and professional skills | c1-Apply the principles of good experimental design and analysis to their own research project.                  |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     | √                                                                                                                                                                                                 |
|                                   | c2-Select and perform relevant statistical analysis on data obtained for their own research .                    |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
|                                   | c3-Perform the proper traditional clinical examination in individual animal and in herd.                         |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |
|                                   | C4-Collect the data and the samples for his research project and perform review or essays on his research topic. |                                                                                                                                                                                      | √                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |
| General and transferable skills   | d1-Demonstrate problem solving by using IT.                                                                      |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       | √                                                                                                                                                                                                 |
|                                   | d2- Own Self-evaluation and need assessment.                                                                     |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       | √                                                                                                                                                                                                 |
|                                   | d3- Utilize different available resources for efficient obtaining of knowledge and information.                  |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       | √                                                                                                                                                                                                 |
|                                   | d4- Issue the regulations and indicators for performance evaluation.                                             |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       | √                                                                                                                                                                                                 |
|                                   | d5- Mange time efficiently and work in research groups.                                                          |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       | √                                                                                                                                                                                                 |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                              |
|----------------------------|------------------------------|
| <b>Course Code:</b>        | Basic M-INMD                 |
| <b>Course title:</b>       | Internal Medicine (Advanced) |
| <b>Program title:</b>      | MVSc.                        |
| <b>Contact hours/ week</b> | 4 hrs.                       |
| <b>Approval Date</b>       | 9/2018                       |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in farm animals and pets
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                       | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|----------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | General systemic states                            | 16                  | 8               | 8                |
|                                                                | Herd examination                                   |                     |                 |                  |
|                                                                | Diseases of internal medicine of ruminants         | 34                  | 17              | 17               |
|                                                                | Diseases of internal medicine of equine            | 28                  | 14              | 14               |
|                                                                | Diseases of internal medicine of Pets              | 28                  | 14              | 14               |
|                                                                | New modalities of diagnoses in veterinary medicine | 18                  | 9               | 9                |
|                                                                | Intensive herd problem managements                 | 10                  | 5               | 5                |
|                                                                | Review on the proposal of master thesis            | 10                  | 5               | 5                |
|                                                                | <b>Total</b>                                       | <b>144</b>          | <b>72</b>       | <b>72</b>        |



### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.

#### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed.,



Beni-Suef University  
Faculty of Veterinary Medicine



## Course specification

### Contents ILOs Matrix

| Topic                                                | K.U(a)   | I.S(b)  | P.P.S (c) | G.T.S (d) |
|------------------------------------------------------|----------|---------|-----------|-----------|
| <b>Knowledge and understanding:</b>                  | 1, 2,4   | 1,2     | 1, 4      | 2,3       |
| - General systemic states                            | 1, 2,3,4 | 2,3,6   | 3,4       | 1,2,3     |
| - Herd examination                                   | 1, 2,4,  | 2,3,4   | 2,3,4     | 1,2,3     |
| - Diseases of internal medicine of ruminants         | 1, 2,4   | 2,3,4   | 1,2,3,4   | 1,2,3     |
| - Diseases of internal medicine of equine            | 1, 2,4   | 1,2,3,4 | 1,2,3     | 1,2,3     |
| - Diseases of internal medicine of Pets              | 1, 2,4   | 1,2, 5  | 3,4       | 1,2,3     |
| - New modalities of diagnoses in veterinary medicine | 1, 2,4   | 1,2,3   | 1, 3,4    | 1,2,3     |
| - Intensive herd problem managements                 | 1, 2,4   | 1,2,3,4 | 3,4       | 1,2,3     |
| - Review on the proposal of master thesis            | 1, 2,4   | 3,4,5   | 2,3,4     | 1,2,3     |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                              |
|----------------------------|------------------------------|
| <b>Course Code:</b>        | M-130                        |
| <b>Course title:</b>       | Internal Medicine (Advanced) |
| <b>Program title:</b>      | MVSc.                        |
| <b>Contact hours/ week</b> | 4 hrs.                       |
| <b>Approval Date</b>       | 9/2018                       |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in farm animals and pets
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                       | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|----------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | General systemic states                            | 16                  | 8               | 8                |
|                                                                | Herd examination                                   |                     |                 |                  |
|                                                                | Diseases of internal medicine of ruminants         | 34                  | 17              | 17               |
|                                                                | Diseases of internal medicine of equine            | 28                  | 14              | 14               |
|                                                                | Diseases of internal medicine of Pets              | 28                  | 14              | 14               |
|                                                                | New modalities of diagnoses in veterinary medicine | 18                  | 9               | 9                |
|                                                                | Intensive herd problem managements                 | 10                  | 5               | 5                |
|                                                                | Review on the proposal of master thesis            | 10                  | 5               | 5                |
|                                                                | <b>Total</b>                                       | <b>144</b>          | <b>72</b>       | <b>72</b>        |



### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |          |           |             |
|---------------------|------------------------------------------------------------|----------|-----------|-------------|
|                     | K&U                                                        | I.S      | P&P.S     | G.S         |
| Written examination | c1,c3,c4,                                                  | b1,b2,b4 | a1,a3,a4, |             |
| Practical Exam      | d1,d2                                                      | c1,c2,c4 | b1,b2,b4  | a3,a4       |
| Oral Exam           | d1,d3                                                      | c1,c2    | b1,b2,b3  | a1,a2,a3,a4 |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.

#### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed.,



Beni-Suef University  
Faculty of Veterinary Medicine

BilliereTindall, London.

3- Large Animal Internal Medicine (1998): Timothy, H. Oglivie, Williams & Wilkins.

4- Small Animal Internal Medicine (1997): Darcy, Show and Sherri Ihle, Williams & Wilkins

*\*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.*

### 8.3. Recommended texts

1- Veterinary clinical examination and diagnosis (2000): Radostits O. M. , 1st. Ed. BilliereTindall, London

2 - Large animal internal medicine (1998): Bradford P. Smith, Mosby-Yearbook, Inc. USA.

*\*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.*

### 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- [www.Sciencedirect.com](http://www.Sciencedirect.com)
- [www.Pupmed.com](http://www.Pupmed.com)
- [www.google.com](http://www.google.com)
- [www.FAO](http://www.FAO)

#### Course Coordinators

**Dr/ Morad M. Mahmmoud**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

#### Head of Department

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                              | K.U(a)   | I.S(b)  | P.P.S (c) | G.T.S (d) |
|----------------------------------------------------|----------|---------|-----------|-----------|
| General systemic states<br>Herd examination        | 1, 2,4   | 1,2     | 1, 4      | 2,3       |
| Diseases of internal medicine of ruminants         | 1, 2,3,4 | 2,3,6   | 3,4       | 1,2,3     |
| Diseases of internal medicine of equine            | 1, 2,4,  | 2,3,4   | 2,3,4     | 1,2,3     |
| Diseases of internal medicine of Pets              | 1, 2,4   | 2,3,4   | 1,2,3,4   | 1,2,3     |
| New modalities of diagnoses in veterinary medicine | 1, 2,4   | 1,2,3,4 | 1,2,3     | 1,2,3     |
| Intensive herd problem managements                 | 1, 2,4   | 1,2, 5  | 3,4       | 1,2,3     |
| Review on the proposal of master thesis            | 1, 2,4   | 1,2,3   | 1, 3,4    | 1,2,3     |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                    |
|----------------------------|--------------------|
| <b>Course Code:</b>        | M-131              |
| <b>Course title:</b>       | Diseases of Cattle |
| <b>Program title:</b>      | MVSc.              |
| <b>Contact hours/ week</b> | 4 hrs.             |
| <b>Approval Date</b>       | 9/2018             |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in cattle under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in cattle.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define feild problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.
- b4-Illustrate their own research data and develop new approach to solving their



research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                         | <b>No. of hours</b> | <b>Lectu-res</b> | <b>Practical</b> |
|----------------------------------------------------------------|------------------------------------------------------|---------------------|------------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states<br>- Herd examination      | 16                  | 8                | 8                |
|                                                                | - Diseases od digestive system of cattle             | 28                  | 14               | 14               |
|                                                                | - Diseases of respiratory system of cattle           | 18                  | 9                | 9                |
|                                                                | - Diseases of urinary system in cattle               | 18                  | 9                | 9                |
|                                                                | - Diseases of the skin in cattle                     | 12                  | 6                | 6                |
|                                                                | - Diseases of cardiovascular in cattle               | 14                  | 7                | 7                |
|                                                                | - Diseases of metabolic and nutritional deficiencies | 14                  | 7                | 7                |
|                                                                | - Principles of neurologic disorders in cattle       | 8                   | 4                | 4                |
|                                                                | - Intensive herd problem managements                 | 8                   | 4                | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | LS          | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.

#### 8.2. Essential books:



Beni-Suef University  
Faculty of Veterinary Medicine

- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.

### **8.3. Recommended texts**

- A Field Manual of Camel Diseases
- Medicine and Surgery of Camelids

*\*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.*

### **8.4. Journals**

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com

### **8.5. Websites**

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

#### **Course Coordinators**

**Dr/ Morad M. Mahmmoud**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

#### **Head of Department**

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states<br>- Herd examination      | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Diseases of digestive system of cattle             | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of cattle           | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in cattle               | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in cattle                     | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in cattle               | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Principles of neurologic disorders in cattle       | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Intensive herd problem managements                 | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis            | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                       |
|----------------------------|-----------------------|
| <b>Course Code:</b>        | M-132                 |
| <b>Course title:</b>       | Diseases of Buffaloes |
| <b>Program title:</b>      | MVSc.                 |
| <b>Contact hours/ week</b> | 4 hrs.                |
| <b>Approval Date</b>       | 9/2018                |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in buffaloes under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in buffaloes.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                         | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states<br>- Herd examination      | 16                  | 8               | 8                |
|                                                                | - Diseases od digestive system of Buffaloes          | 28                  | 14              | 14               |
|                                                                | - Diseases of respiratory system of Buffaloes        | 18                  | 9               | 9                |
|                                                                | - Diseases of urinary system in Buffaloes            | 18                  | 9               | 9                |
|                                                                | - Diseases of the skin in Buffaloes                  | 12                  | 6               | 6                |
|                                                                | - Diseases of cardiovascular in Buffaloes            | 14                  | 7               | 7                |
|                                                                | - Diseases of metabolic and nutritional deficiencies | 14                  | 7               | 7                |
|                                                                | - Principles of neurologic disorders in Buffaloes    | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Intensive herd problem managements      | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.



Beni-Suef University  
Faculty of Veterinary Medicine

## 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
  - 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.
  - 3- Large Animal Internal Medicine (1998): Timothy, H. Oglivie, Williams & Wilkins.
  - 4- Small Animal Internal Medicine (1997): Darcy, Show and Sherri Ihle, Williams & Wilkins
- \*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.*

## 8.3. Recommended texts

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London
- 2 - Buffalo Medicine.

## 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

## 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### Course Coordinators

**Dr/ Morad M. Mahmmoud**  
Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

### Head of Department

**Prof. Dr/ Hussein Ebrahim Hussein**  
Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states                            | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - General systemic states<br>- Herd examination      | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of digestive system of buffaloes          | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of respiratory system of buffaloes        | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of urinary system in buffaloes            | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of the skin in buffaloes                  | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of cardiovascular in buffaloes            | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Principles of neurologic disorders in buffaloes    | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Intensive herd problem managements                 | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |
| - Review on the proposal of master thesis            | 1, 2,4   | 1,2       | 1, 4      | 2,3       |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                   |
|----------------------------|-------------------|
| <b>Course Code:</b>        | M-133             |
| <b>Course title:</b>       | Diseases of Camel |
| <b>Program title:</b>      | MVSc.             |
| <b>Contact hours/ week</b> | 4 hrs.            |
| <b>Approval Date</b>       | 9/2018            |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in camels under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in camels.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                         | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states<br>- Herd examination      | 16                  | 8               | 8                |
|                                                                | - Diseases of digestive system of camel              | 28                  | 14              | 14               |
|                                                                | - Diseases of respiratory system of camel            | 18                  | 9               | 9                |
|                                                                | - Diseases of urinary system in camel                | 18                  | 9               | 9                |
|                                                                | - Diseases of the skin in camel                      | 12                  | 6               | 6                |
|                                                                | - Diseases of cardiovascular in camel                | 14                  | 7               | 7                |
|                                                                | - Diseases of metabolic and nutritional deficiencies | 14                  | 7               | 7                |
|                                                                | - Principles of neurologic disorders in camel        | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Intensive herd problem managements      | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.



Beni-Suef University  
Faculty of Veterinary Medicine

### **8.2. Essential books:**

- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.

### **8.3. Recommended texts**

- Camel Management and Diseases
- A Field Manual of Camel Diseases
- Medicine and Surgery of Camelids
- Camel Management And Diseases

### **8.4. Journals**

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### **8.5. Websites**

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### **Course Coordinators**

**Dr/ Morad M. Mahmmoud**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

### **Head of Department**

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states<br>- Herd examination      | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Diseases of digestive system of camel              | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of camel            | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in camel                | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in camel                      | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in camel                | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Principles of neurologic disorders in camel        | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Intensive herd problem managements                 | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis            | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                            |
|----------------------------|----------------------------|
| <b>Course Code:</b>        | M-134                      |
| <b>Course title:</b>       | Diseases of Sheep and Goat |
| <b>Program title:</b>      | MVSc.                      |
| <b>Contact hours/ week</b> | 4 hrs.                     |
| <b>Approval Date</b>       | 9/2018                     |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in sheep and goats under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in sheep and goats.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                            | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|---------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states<br>- Herd examination         | 16                  | 8               | 8                |
|                                                                | - Diseases od digestive system of sheep and goats       | 28                  | 14              | 14               |
|                                                                | - Diseases of respiratory system of sheep and goats     | 18                  | 9               | 9                |
|                                                                | - Diseases of urinary system in sheep and goats         | 18                  | 9               | 9                |
|                                                                | - Diseases of the skin in sheep and goats               | 12                  | 6               | 6                |
|                                                                | - Diseases of cardiovascular in sheep and goats         | 14                  | 7               | 7                |
|                                                                | - Diseases of metabolic and nutritional deficiencies    | 14                  | 7               | 7                |
|                                                                | - Principles of neurologic disorders in sheep and goats | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Intensive herd problem managements      | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.



Beni-Suef University  
Faculty of Veterinary Medicine

### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.

*\*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.*

### 8.3. Recommended texts

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London

*\*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.*

### 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### Course Coordinators

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### Head of Department

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                   | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|---------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states<br>- Herd examination         | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Diseases of digestive system of sheep and goats       | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of sheep and goats     | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in sheep and goats         | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in sheep and goats               | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in sheep and goats         | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies    | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Principles of neurologic disorders in sheep and goats | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Intensive herd problem managements                    | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis               | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                     |
|----------------------------|---------------------|
| <b>Course Code:</b>        | M-135               |
| <b>Course title:</b>       | Diseases of Equines |
| <b>Program title:</b>      | MVSc.               |
| <b>Contact hours/ week</b> | 4 hrs.              |
| <b>Approval Date</b>       | 9/2018              |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in equines under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in equines.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### C- Professional and practical skills

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### d- General and transferable skills

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2- Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## 4-Topics and contents

| Course                                                         | Topic                                                | No. of hours | Lectures | Practical |
|----------------------------------------------------------------|------------------------------------------------------|--------------|----------|-----------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states<br>- Herd examination      | 16           | 8        | 8         |
|                                                                | - Diseases of digestive system of equine             | 28           | 14       | 14        |
|                                                                | - Diseases of respiratory system of equine           | 18           | 9        | 9         |
|                                                                | - Diseases of urinary system in equine               | 18           | 9        | 9         |
|                                                                | - Diseases of the skin in equine                     | 12           | 6        | 6         |
|                                                                | - Diseases of cardiovascular in equine               | 14           | 7        | 7         |
|                                                                | - Diseases of metabolic and nutritional deficiencies | 14           | 7        | 7         |
|                                                                | - Principles of neurologic disorders in equine       | 8            | 4        | 4         |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Sport medicine in horse                 | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.



Beni-Suef University  
Faculty of Veterinary Medicine

### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.

*\*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.*

### 8.3. Recommended texts

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London.
- 2- Equine Internal Medicine.
- 3- Current Therapy in Equine Medicine.

### 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### Course Coordinators

**Dr/ Morad M. MahmmoudProf. Dr/ Hussein Ebrahim Hussein**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

### Head of Department

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states<br>- Herd examination      | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Diseases of digestive system of equine             | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of equine           | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in equine               | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in equine                     | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in equine               | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Principles of neurologic disorders in equine       | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Sport medicine in horse                            | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis            | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                         |
|----------------------------|-------------------------|
| <b>Course Code:</b>        | M-136                   |
| <b>Course title:</b>       | Diseases of Pet Animals |
| <b>Program title:</b>      | MVSc.                   |
| <b>Contact hours/ week</b> | 4 hrs.                  |
| <b>Approval Date</b>       | 9/2018                  |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in pets under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in pets.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.
- b4-Illustrate their own research data and develop new approach to solving their



research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                    | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|-------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - General systemic states                       | 16                  | 8               | 8                |
|                                                                | - History and physical examination of pets      |                     |                 |                  |
|                                                                | - Diseases of digestive system of pets          | 28                  | 14              | 14               |
|                                                                | - Diseases of respiratory system of pets        | 18                  | 9               | 9                |
|                                                                | - Diseases of urinary system in pets            | 18                  | 9               | 9                |
|                                                                | - Diseases of the skin in pets                  | 12                  | 6               | 6                |
|                                                                | - Diseases of cardiovascular in pets            | 14                  | 7               | 7                |
|                                                                | - Diseases of endocrine and metabolic disorders | 14                  | 7               | 7                |
|                                                                | - Principles of neurologic disorders in pets    | 8                   | 4               | 4                |
|                                                                | - Diseases of musculoskeletal system in pets    | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | LS          | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.

#### 8.2. Essential books:



Beni-Suef University  
Faculty of Veterinary Medicine

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
  - 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.
  - 3- Small Animal Internal Medicine (1997): Darcy, Show and Sherri Ihle, Williams & Wilkins
- \*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.***

### **8.3. Recommended texts**

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London.
- 2- Dog Medicine.
- 3- Small Animal Medicine.
- 4- Exotic Pet Medicine and Surgery.

### **8.4. Journals**

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### **8.5. Websites**

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

#### **Course Coordinators**

**Dr/ Morad M. Mahmmoud**  
Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

#### **Head of Department**

**Prof. Dr/ Hussein Ebrahim Hussein**  
Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                                   | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|-------------------------------------------------------------------------|----------|-----------|-----------|-----------|
| - General systemic states<br>- History and physical examination of pets | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Diseases of digestive system of pets                                  | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of pets                                | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in pets                                    | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in pets                                          | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in pets                                    | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of endocrine and metabolic disorders                         | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Principles of neurologic disorders in pets                            | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Diseases of musculoskeletal system in pets                            | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis                               | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                          |
|----------------------------|--------------------------|
| <b>Course Code:</b>        | M-137                    |
| <b>Course title:</b>       | Diseases of wild animals |
| <b>Program title:</b>      | MVSc.                    |
| <b>Contact hours/ week</b> | 4 hrs.                   |
| <b>Approval Date</b>       | 9/2018                   |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in wild animals under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in wild animals.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                           | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|--------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - Taxonomy                                             | 16                  | 8               | 8                |
|                                                                | - Wild life ecology                                    | 28                  | 14              | 14               |
|                                                                | - Management of wildlife both captive and free ranging | 18                  | 9               | 9                |
|                                                                | - Principles of captive management of wildlife         | 18                  | 9               | 9                |
|                                                                | - Methods of restraint and management                  | 12                  | 6               | 6                |
|                                                                | - Diseases affecting wildlife                          | 14                  | 7               | 7                |
|                                                                | - Diseases of stress in wildlife                       | 14                  | 7               | 7                |
|                                                                | - Disease Management in wildlife                       | 8                   | 4               | 4                |
|                                                                | - Diseases surveillance                                | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | LS          | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.

#### 8.2. Essential books:



Beni-Suef University  
Faculty of Veterinary Medicine

-

### **8.3. Recommended texts**

- Zoo and Wild Animal Medicine Current Therapy
- Fowler's Zoo and Wild Animal Medicine, Volume 8 – 1st Edition

### **8.4. Journals**

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### **8.5. Websites**

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### **Course Coordinators**

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Beni-Suef University

### **Head of Department**

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                  | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|--------------------------------------------------------|----------|-----------|-----------|-----------|
| - Taxonomy                                             | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Wild life ecology                                    | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Management of wildlife both captive and free ranging | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Principles of captive management of wildlife         | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Methods of restraint and management                  | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases affecting wildlife                          | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Diseases of stress in wildlife                       | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Disease Management in wildlife                       | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Diseases surveillance                                | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis              | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| <b>Course Code:</b>        | M-138                                                      |
| <b>Course title:</b>       | Diseases of Metabolic disorders and Nutritional Deficiency |
| <b>Program title:</b>      | MVSc.                                                      |
| <b>Contact hours/ week</b> | 4 hrs.                                                     |
| <b>Approval Date</b>       | 9/2018                                                     |

### **2-Professional information**

**Overall aims of course:**

**This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in individual and herd or farm animals under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

**a- Knowledge and understanding:**

**By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in farm animals and pets (according Animal species he studied).
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

**b-Intellectual skills**

**By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.



b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.

b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                         | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - Metabolic disorders vs. nutritional deficiency     | 16                  | 8               | 8                |
|                                                                | - Metabolic diseases of ruminants                    | 28                  | 14              | 14               |
|                                                                | - Metabolic diseases of equine                       | 18                  | 9               | 9                |
|                                                                | - Metabolic diseases and endocrine disorders in pets | 18                  | 9               | 9                |
|                                                                | - Nutritional deficiency in ruminants                | 12                  | 6               | 6                |
|                                                                | - Nutritional deficiency in equine                   | 14                  | 7               | 7                |
|                                                                | - Nutritional deficiency in pets                     | 14                  | 7               | 7                |



|  |                                                                                         |     |    |    |
|--|-----------------------------------------------------------------------------------------|-----|----|----|
|  | - Metabolic profile in ruminants                                                        | 8   | 4  | 4  |
|  | - Control and prevention of metabolic and nutritional diseases in intensive managements | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis                                               | 8   | 4  | 4  |
|  | Total                                                                                   | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |



## 8- List of references

### 8.1. Notes and books

-None.

### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.
- 3- Large Animal Internal Medicine (1998): Timothy, H. Oglivie, Williams & Wilkins.

*\*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.*

### 8.3. Recommended texts

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London
- 2 - Large animal internal medicine (1998): Bradford P. Smith, Mosby-Yearbook, Inc. USA.

*\*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.*

### 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- Journal of Equine Veterinary Science - Elsevier
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com
- Journal of Equine Veterinary Science

### 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### Course Coordinators

**Dr/ Morad M. Mahmmoud**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

### Head of Department

**Prof. Dr/ Hussein Ebrahim Hussein**

Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                                                   | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|-----------------------------------------------------------------------------------------|----------|-----------|-----------|-----------|
| - Metabolic disorders vs. nutritional deficiency                                        | 1, 2,4   | 1,2       | 1, 4      | 2,3       |
| - Metabolic diseases of ruminants                                                       | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Metabolic diseases of equine                                                          | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Metabolic diseases and endocrine disorders in pets                                    | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Nutritional deficiency in ruminants                                                   | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Nutritional deficiency in equine                                                      | 1, 2,4   | 1,2, 5    | 3,4       | 1,2,3     |
| - Nutritional deficiency in pets                                                        | 1, 2,4   | 1,2,3     | 1, 3,4    | 1,2,3     |
| - Metabolic profile in ruminants                                                        | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Control and prevention of metabolic and nutritional diseases in intensive managements | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis                                               | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |



## **Postgraduatecourse specification**

### **1-Basic information**

|                            |                                |
|----------------------------|--------------------------------|
| <b>Course Code:</b>        | M-139                          |
| <b>Course title:</b>       | Diseases of Newly-born animals |
| <b>Program title:</b>      | MVSc.                          |
| <b>Contact hours/ week</b> | 4 hrs.                         |
| <b>Approval Date</b>       | 9/2018                         |

### **2-Professional information**

#### **Overall aims of course:**

##### **This course aims to:**

- 1-Provide graduates the opportunity to develop communication skills.
- 2-Enable graduates to achieve competency in modern laboratory technology.
- 3-Allow graduates to develop practical research project.
- 4-Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.
- 5-Create the academic background and clinical experience about the most important disease problems encountered in newly-born animals under the Egyptian conditions.
- 6-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis. Interpret the results, and describe the treatment and the methods of control and prevention of the disease.
- 7- Have the ability of principles of scientific writing.

### **3- Intended learning outcomes of course (ILOs)**

#### **a- Knowledge and understanding:**

##### **By the end of this course the student should be able to:**

- a1- Describe the pathophysiology of the diseases or disease problems.
- a2- Identify, treat and deal with the disease problem in newly-born animals.
- a3- Explain the data and find correlation to take a decision.
- a4- Recognize essential data concerning the diseases causing similar problems.

#### **b-Intellectual skills**

##### **By the end of this course the student should be able to:**

- b1- Interpret, conceptualize and define research problems and questions.
- b2-Analyze the data, and results of clinical examinations, lab and different modalities of diagnosis.
- b3-Set up a diagnosis, prognosis and treatment and management of the disease conditions.



b4-Illustrate their own research data and develop new approach to solving their research questions

b5-Propose creative approaches to solving technical problems or issues associate with running and researches project.

b6-Analyze, summarize and evaluate prior researches finding in a specific area.

### **C- Professional and practical skills**

**By the end of this course the student should be able to:**

c1-Apply the principles of good experimental design and analysis to their own research project.

c2- Use and perform relevant statistical analysis on data obtained for their own research .

c3- Carry out the proper traditional clinical examination in individual animal and in herd.

c4- Evaluate the data and the samples for his research project and perform review or essays on his research topic.

### **d- General and transferable skills**

**By the end of studying the course, the student should be able to:**

d1-Properly use computer and internet skills.

d2-Work in teams and appreciate the importance of cooperation.

d3-Properly communicate with others.

d4- Enhance his/her effective presentation skills.

## **4-Topics and contents**

| <b>Course</b>                                                  | <b>Topic</b>                                                                                | <b>No. of hours</b> | <b>Lectures</b> | <b>Practical</b> |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------|------------------|
| Hours/week<br><b>Theoretical 2hrs</b><br><b>Practical 2hrs</b> | - Principles of management and nutrition of newly born animals<br>- General systemic state. | 16                  | 8               | 8                |
|                                                                | - Diseases of digestive system of neonates                                                  | 28                  | 14              | 14               |
|                                                                | - Diseases of respiratory system of neonates                                                | 18                  | 9               | 9                |
|                                                                | - Diseases of urinary system in neonates                                                    | 18                  | 9               | 9                |
|                                                                | - Diseases of the skin in neonates                                                          | 12                  | 6               | 6                |
|                                                                | - Diseases of cardiovascular in neonates                                                    | 14                  | 7               | 7                |
|                                                                | - Diseases of metabolic and nutritional deficiencies                                        | 14                  | 7               | 7                |
|                                                                | - Principles of neurologic disorders in neonates                                            | 8                   | 4               | 4                |



|  |                                           |     |    |    |
|--|-------------------------------------------|-----|----|----|
|  | - Intensive herd problem managements      | 8   | 4  | 4  |
|  | - Review on the proposal of master thesis | 8   | 4  | 4  |
|  | Total                                     | 144 | 72 | 72 |

### 5-Teaching and learning methods

- **Lectures:** depending on the sharing efforts of the students, discussion, brain storming and supported with macromedia and multimedia aids.
- **Practical sections:** Laboratory
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Assays and reviews**
- **Discussion groups**

### 7-Student assessment

#### 7.1. Assessments methods:

| Method              | Matrix alignment of the measured ILOs/ Assessments methods |             |       |       |
|---------------------|------------------------------------------------------------|-------------|-------|-------|
|                     | K&U                                                        | I.S         | P&P.S | G.S   |
| Written examination | a1-a4                                                      | b1,b3,b4    |       |       |
| Practical Exam      | a3                                                         | b2,b4,b5,b6 | c1-c4 | d1-d4 |
| Oral Exam           | a1,a2                                                      | b2,b3,b5    | c4    | d3    |

#### 7.2. Assessment schedules

| Method             | Week(s)         |
|--------------------|-----------------|
| Written exam       | During December |
| Practical exam     | During December |
| Oral exam          | During December |
| Student activities | Along the year  |

#### 7.3. Weight of assessments

| Assessment         | Weight of assessment |
|--------------------|----------------------|
| Written exam       | 50%                  |
| Practical exam     | 25%                  |
| Oral exam          | 25%                  |
| Student activities | -----                |
| total              | 100%                 |

### 8- List of references

#### 8.1. Notes and books

-None.



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### 8.2. Essential books:

- 1- Veterinary clinical diagnosis (1984): W. R. Kelly 1984, 3rd. Ed, BilliereTindall, London.
- 2-Veterinary medicine: a textbook of the diseases of cattle sheep, pigs, goats and horses(2010):Radostits, O. M., Blood D. C., Gay, C. C., Arundal, J. H., 10th. Ed., BilliereTindall, London.
- 3- Large Animal Internal Medicine (1998): Timothy, H. Oglivie, Williams & Wilkins.

***\*These books are available in the library of faculty of Veterinary Medicine, Beni-Suef University.***

### 8.3. Recommended texts

- 1- Veterinary clinical examination and diagnosis (2000):Radostits O. M. , 1st. Ed. BilliereTindall, London
- 2 - Large animal internal medicine (1998): Bradford P. Smith, Mosby-Yearbook, Inc. USA.

***\*These books are found in the library of faculty of veterinary medicine, Beni-Suef University.***

### 8.4. Journals

- Journal of Veterinary Internal Medicine - Wiley Online Library
- JVIM - American College of Veterinary Internal Medicine
- Veterinary Medicine International — An Open Access Journal
- The Journal of Applied Research in Veterinary Medicine
- British Veterinary Journal - ScienceDirect.com

### 8.5. Websites

- [www.ekb.eg/ar](http://www.ekb.eg/ar): Egyptian knowledge bank.
- www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

### Course Coordinators

**Dr/ Morad M. Mahmmoud**

Lecturer of Veterinary Internal Medicine  
Faculty of Veterinary Medicine,  
Beni-Suef University

### Head of Department

**Prof. Dr/ Hussein Ebrahim Hussein**  
Professor of Infectious diseases  
Faculty of Veterinary Medicine,  
Beni-Suef University



## Course specification

### Contents ILOs Matrix

| Topic                                                                                       | K.U(a)   | I.S(b)    | P.P.S (c) | G.T.S (d) |
|---------------------------------------------------------------------------------------------|----------|-----------|-----------|-----------|
| - Principles of management and nutrition of newly born animals<br>- General systemic state. | 1, 2,4   | 1,2       | 1,4       | 2,3       |
| - Diseases of digestive system of neonates                                                  | 1, 2,3,4 | 2,3,6     | 3,4       | 1,2,3     |
| - Diseases of respiratory system of neonates                                                | 1, 2,4,  | 2,3,4     | 2,3,4     | 1,2,3     |
| - Diseases of urinary system in neonates                                                    | 1, 2,4   | 2,3,4     | 1,2,3,4   | 1,2,3     |
| - Diseases of the skin in neonates                                                          | 1, 2,4   | 1,2,3,4   | 1,2,3     | 1,2,3     |
| - Diseases of cardiovascular in neonates                                                    | 1, 2,4   | 1,2,5     | 3,4       | 1,2,3     |
| - Diseases of metabolic and nutritional deficiencies                                        | 1, 2,4   | 1,2,3     | 1,3,4     | 1,2,3     |
| - Principles of neurologic disorders in neonates                                            | 1, 2,4   | 1,2,3,4   | 3,4       | 1,2,3     |
| - Intensive herd problem managements                                                        | 1, 2,4   | 3,4,5     | 2,3,4     | 1,2,3     |
| - Review on the proposal of master thesis                                                   | 1, 2,3,4 | 1,2,4,5,6 | 1,2,3,4   | 1,2,3,4   |