

Course Specifications

Equine Medicine

Benha University

Faculty of Veterinary Medicine

Program(s) on which the course is given: **Bachelor of Veterinary Medical sciences**

Department offering the course: **Department of Animal Medicine (Internal Medicine)**

Academic year / Level: **4th Year, 1st semester**

Date of specification approval minstrial decree No 921, on 15/9/1987

Date of department approval: 9-1-2011

A- Basic Information

Title: Equine Medicine

Code: Vet 00642a

Lecture: 2 hours

Practical: 3 hours

Total: 5 hours

B- Professional Information

1 – Overall Aims of Course:

The aim of this course is to provide cutting-edge information of equine diseases that are most commonly affecting horses and donkeys in Egypt and their treatment. This will enable students to gain skills for accurate diagnosis, differential diagnosis and treatment of these disease problems. Diseases of digestive, respiratory and cardiovascular systems are of particular concern in adult equine patient. Sport medicine is introduced recently to be relevant for racehorses. Moreover, diseases of foals received a particular attention during this course especially diseases of Arabian foals.

2 – Intended Learning Outcomes of Course (ILOs)

a Knowledge and Understanding:

By the end of this course, students will be able to:

- a1- Recognize the function and anatomy of different organs horses, donkeys and foals.
- a2- Define different diseases affecting horses, donkeys and foals.
- a3- Know the system affected then the organ within the system.
- a4- Identify the cause-disease interaction through the pathogenesis
- a5- Comprehend differential diagnosis between related diseases
- a6- Understand the general state disorders of horses, donkeys and foals.

a7- Understand a treatment schedule for each disease with regard to type of drug, effective dose and time of dosing.

a8- Describe a protocol for prevention and control of equine diseases.

b Intellectual Skills

By the end of this course, students will be able to:

b1- Develop skills on differential diagnosis based on clinical signs.

b2- Determine inter-relation between system affections.

b3- Determine the type other diagnostic aids in diagnosis.

b4- Decide on the appropriate treatment for each disease

b5- Read and comment the diagnostic tools and reports

b6- Judge on giving a decision for either medical or surgical intervention

c Professional and Practical Skills

By the end of this course, students will be able to:

c1- Take a case history of equine patient.

c2- Conduct clinical and physical examinations of diseases horses and donkeys.

c3- Collect samples for lab. diagnosis.

c4- Treat diseases by drug injection by various routes of administration.

c5- Use different diagnostic aids in diagnosis.

d General and Transferable Skills

By the end of this course, students will be able to:

d1- Solve problems in farm animal (equine).

d2- Communicate with other colleagues for reaching diagnosis.

d3- Cooperate with other veterinary hospitals, clinics and units in the field of equine practice.

d4- Use computers, software and CDs for educational purposes

d5- Work in a team during the diagnosis process.

D6- acquire self-learning process for life-long learning

3- Contents

Topic	No. of hours	Lecture	Practical
General Equine Medicine	4	4	-
Diseases of Digestive system in equine	4	4	-
Diseases of respiratory system in equine	3	3	-
Metabolic diseases in equine	2	2	-
Diseases of cardiovascular system in equine	3	3	-
Disease of urinary system in equine	3	3	-

Sport medicine	2	2	-
Diseases of nervous system in equine	3	3	-
Foal diseases	2	2	-
General examination of horses and donkeys	6	-	6
Clinical examination of Digestive system of equine	6	-	6
Clinical examination of respiratory system of equine	4	-	4
Clinical examination of cardiovascular system of equine	4	-	4
Clinical examination of respiratory system of equine	4	-	4
Clinical examination of nervous system of equine	4	-	5
Clinical examination of urinary system of equine	4	-	5
Laboratory examination of feces and urine	4	-	5
Total	65	26	39

4- Content-ILOs matrix

	Content	ILOs			
		Knowledge and understanding	Intellectual	Professional and practical	General and transferable
1.	General Equine Medicine	a4, a6	b1, b2,b3, b4	c1, c2 , c3, c4	d1, d2,
2.	Diseases of Digestive system in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
3.	Diseases of respiratory system in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
4.	Metabolic diseases in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4
5.	Diseases of cardiovascular system in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
6.	Disease of urinary system in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
7.	Sport medicine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4,
8.	Diseases of nervous system in equine	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
9.	Foal diseases	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
10.	General examination of horses and donkeys	a1, a6	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
11.	Clinical examination	a1, a2, a3	b1, b2,b3,	c1, c2 , c3, c4	d1, d2, d3,

	of Digestive system of equine		b4, b5		d4,d5
12.	Clinical examination of respiratory system of equine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
13.	Clinical examination of cardiovascular system of equine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
14.	Clinical examination of respiratory system of equine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
15.	Clinical examination of nervous system of equine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
16.	Clinical examination of urinary system of equine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
17.	Laboratory examination of feces and urine	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d2, d3

5- Assessment-ILOS matrix

Assessment	ILOS			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Mid – Term exam	a2, a3, a4, a5	b1, b2		
Practical exam	a1	b1, b2,b3, b4, b5, b6	c1, c2 , c3, c4, c5	
Oral exam	a1, a2, a3, a4, a5	b1, b2,b3		
Final term exam	a2, a3, a4, a5, a6, a7, a8	b1, b2,b3, b4, b5, b6	c1, c2 , c3	
Assignments and research	a4, a5	b1		d1, d2, d3,d4, d5

6– Teaching and Learning Methods

1. Lecture notes and textbooks
2. Lectures prepared on multimedia as PowerPoint presentations
3. Practical lessons for case diagnosis and treatment in the vet. hospital
4. Educational farm for conducting the clinical examination of animals.
5. Field trips to equine farms, such as Alzahraa farm for Arabian horse
6. Veterinary convoys for diagnosis and treatment of equine cases in veterinary clinics and centers.

7- Student Assessment Methods

1. Mid-term examination
2. Final-term exam
3. Oral exam
4. Practical exam
5. Assignment and research

Assessment Schedule

Assessment 1: Mid-term exam	Week 8
Assessment 1: Final-term exam	Week 15
Assessment 2: Oral exam.	Week 15
Assessment 3: Practical exam.	Week 14
Assessment 4: assignment and research	Monthly

Weighting of Assessments

Mid-term examination	5%
Final-term Examination	50 %
Oral Examination.	20 %
Practical Examination	20 %
<u>Assignment and research</u>	<u>5 %</u>
Total	100%

8- List of References

8.1- Course Notes

Equine Medicine: summarized integrated course for 4th grade students.

8.2- Essential Books (Text Books)

The Horse Diseases and Clinical Management.

8.3- Recommended Books

1- Current therapy in Equine Medicine.

8.4- Periodicals, Web Sites, ... etc

Periodicals:

- Equine Veterinary journal.
- Journal of Animal Science.
- Research on Veterinary Science.
- Journal of American Veterinary Medical Association.
- American Journal of Veterinary Research.
- Veterinary Record.
- Tropical animal health and production
- Preventive veterinary Medicine

Web sites: <http://www.ivis.org/>

<http://www.merckvetmanual.com/mvm/index.jsp>

www.drghanem.co.nr

9- Facilities Required for Teaching and Learning

- A laboratory of veterinary medical diagnosis.
- Medical stethoscope and thermometer.
- Clinical teaching cases.
- Donkeys as lab. animals.
- Ultrasonography.
- Fiberoptic endoscope.
- Electrocardiograph (ECG).
- Multimedia projector and a computer.
- Overhead projector.
- Samples of Veterinary drug.

Course Coordinators:

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