

Specification for Large Ruminant Medicine course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Animal Medicine

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Large Ruminant Medicine
2.	Course code	511 (B) IV
3.	Level	5 th year
4.	Semester	Second semester
5.	Total hours	5
6.	Lecture hours	2
7.	Practical hours	3

C-Professional Information

1- Course learning objectives

The aims of this course are to allow student to:

- Identify the large ruminant and camel diseases that are most commonly affecting cows, buffaloes and calves in Egypt and their treatment.
- Conduct accurate diagnosis, differential diagnosis and treatment of these diseases in large ruminant.

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

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- List the function and anatomy of different of Large ruminants.
- Define different diseases affecting Large ruminants.
- Nominate the system affected then the organ within the system.
- Identify the cause-disease interaction through the pathogenesis
- Conduct differential diagnosis between related diseases
- Designate the general state disorders of Large ruminants.
- List a treatment schedule for each disease with regard to type of drug, effective dose and time of dosing.
- Describe a protocol for prevention and control of Large ruminants diseases

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Conduct a differential diagnosis based on clinical signs.
- b2- Determine inter-relation between system affections.
- b3- Determine the type other diagnostic aids used 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

After successful completion of the course the students should be able to:

- c1- Take a case history from owner of equine patient professionally.
- c2- Conduct clinical and physical examinations of diseases Large ruminants.
- 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

After successful completion of the course the students should have the following skills

- d1. Present scientifically and professionally the scientific information
- d2- Communicate with other colleagues for reaching diagnosis.
- d3- Cooperate with other veterinary hospitals, clinics and units in the field of Large ruminants practice.
- d4- Use computers, software and CDs for educational purposes(searching skill)
- d5- Work in a team during the diagnosis process.

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ¹⁰
B Intellectual skills	b ⁷
C Professional and practical skills	c ^{3,5,9}
D General and transferable skills	d ^{1,2,3,5}

3.1- Course contents:

Topic	Lecture hours	Practical hours
General Medicine of large ruminant	2	-
Diseases of Digestive system in large ruminant	4	-
Diseases of respiratory system in large ruminant	4	-
Metabolic diseases in large ruminant	6	-
Diseases of cardiovascular system in large ruminant	2	-
Diseases of nervous system in large ruminant	2	-
Disease of urinary system in large ruminant	2	-
Nutritional deficiency diseases in large ruminant	4	-
Diseases of skin in large ruminant	4	-
General examination of large ruminant	-	6

Clinical examination of Digestive system in large ruminant	-	6
Clinical examination of respiratory system in large ruminant	-	4
Clinical examination of cardiovascular system in large ruminant	-	4
Clinical examination of respiratory system in large ruminant	-	4
Clinical examination of nervous system in large ruminant	-	4
Clinical examination of urinary system in large ruminant	-	4
Clinical examination of skin in large ruminant	-	4
Laboratory examination of urine, feces, and ruminal juice	-	6
Total	30	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
General Medicine of large ruminant	a4, a6	b1, b2,b3, b4	c1, c2 , c3, c4	d1, d2,
Diseases of Digestive system in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
Diseases of respiratory system in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
Metabolic diseases in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4
Diseases of cardiovascular system in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
Diseases of nervous system in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
Disease of urinary system in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4,
Nutritional deficiency diseases in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
Diseases of skin in large ruminant	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
General examination of large ruminant	a1, a6	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination	a1, a2, a3	b1, b2,b3,	c1, c2 , c3, c4	d1, d2, d3,

of Digestive system in large ruminant		b4, b5		d4,d5
Clinical examination of respiratory system in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of cardiovascular system in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of respiratory system in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of nervous system in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of urinary system in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of skin in large ruminant	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d2, d3
Laboratory examination of urine, feces, and ruminal juice	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d2, d3

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods							assessment method					
	L	P&M	D	P	Ps	Bs	Ft	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	x	x	x	0	0	x	0	x	x	x	0	x
	a2	x	x	x	0	0	x	0	x	x	x	0	x
	a3	x	x	x	0	0	x	0	x	x	x	0	x
	a4	x	x	x	0	0	x	0	x	x	x	0	x
	a5	x	x	x	0	0	x	0	x	0	x	0	x
	a6	x	x	x	0	0	x	0	x	0	x	0	x
	a7	x	x	x	0	0	x	0	x	0	x	0	x
	a8	x	x	x	0	0	x	x	x	0	x	0	x
Intellectual skill	b1	x	x	x	0	x	x	x	x	x	x	0	x
	b2	x	x	x	0	x	x	x	x	x	x	0	x
	b3	x	x	x	0	x	x	x	x	x	x	0	x
	b4	x	x	x	0	x	x	x	x	x	x	0	x
	b5	x	x	x	0	x	x	x	x	0	x	0	x
	b6	x	x	x	0	x	x	x	x	0	x	0	x
al and practical	c1	0	x	x	x	x	0	x	x	0	x	x	0
	c2	0	x	x	x	x	0	x	x	0	x	x	0
	c3	0	x	x	x	x	0	x	x	0	x	x	0
	c4	0	x	x	x	x	0	x	x	0	x	x	0

General skills	c5	0	x	x	x	x	0	x	x	0	x	x	0
	d1	x	x	x	0	0	x	x	x	0	x	x	0
	d2	0	0	x	0	x	x	x	x	0	x	x	0
	d3	0	0	0	x		0	x	x	0	x	0	0
	d4	0	x	x	x	x	0	0	x	0	x	0	0
	d5	0	0	0	x	x	0	0	x	0	x	0	0

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical, Ps: Problem solving, Bs: Brain storming, Ft: field trip

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

Large Ruminant Medicine: summarized integrated course for 5th grade students
edited by staff members

6.2- Essential books (text books)

- Peter D. Constable, Kenneth W Hinchcliff, Stanley H. Done and Walter Gruenberg (2017): Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats, 11th edn. (Cosntable, Veterinary Medicine)
- Kristin Holtgrew-Bohling (2012) Large Animal Clinical Procedures for Veterinary Technicians.
- Jody Rockett (2009) Veterinary Clinical Procedures.
- Thomas J.Divers (2008) Diseases of Dairy Cattle

6.3- Recommended books

- Course note.
- Peter D. Constable, Kenneth W Hinchcliff, Stanley H. Done and Walter Gruenberg (2017): Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats, 11th edn. (Cosntable, Veterinary Medicine)
- Jody Rockett (2009) Veterinary Clinical Procedures.
- Thomas J.Divers (2008) Diseases of Dairy Cattle.

6.4- Periodicals, Web sites, . . . etc

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

- <http://www.ivis.org>
- <http://www.merckvetmanual.com/mvm/index.jsp>
- www.drghanem.co.nr
- www.ekb.eg

7- Facilities required for teaching and learning

- Teaching hall (data show, white board).
- Equipped laboratory of veterinary medical diagnosis (Medical stethoscope and thermometer- Ultrasonography- Electrocardiograph (ECG)).
- Samples of veterinary drug.
- Veterinary hospital
- Educational farm for conducting the clinical examination of animals

Course coordinator: Prof. Dr. YASSEIN MAHMOUD ABD AL-RAOF.

Head of department Prof. Dr. FAISEL KHALIL ARNAOUT

Signature

Date 1/10/2019

