



Course specification

1-Basic information

Course Code:	IMD:5167
Course title :	Application of Endoscopy and ultrasonography in Internal Medicine
Academic year:	5 th academic year
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	1 Practical hour/week
Approval Date	9/2019

2-Professional information

Overall aims of course:

This course aims to:

1-Acquire the essential knowledge concerning the new modalities of diagnosis in veterinary medicine.

2- Change the perspective view of the diseases after application of new modalities of diagnosis.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

a1. State the essential physical knowledge upon which the instruments were designed.

a2. Acquire the talent of clinical applications of the instruments.

a3. Recognize the ability of instruments (ultrasonography and endoscopy) in diagnosis and treatment of the disease in veterinary field.

a4. State the disease conditions requiring examinations by endoscopy and ultrasonography in veterinary diseases.

b- Intellectual skills

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

b1. Identify the disease conditions requiring ultrasonography and endoscopic examinations.

b2. Describe some important diseases conditions in animals by ultrasonography and endoscopy.

b3. Interpret the ultrasonography and endoscopic reports.

b4. Integrate the different steps of clinical examinations and lab investigation for making correct diagnosis.

c- Professional and practical skills

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

c1. Prepare the instruments and tools for clinical examination.

c2. Perform the proper application of the instruments.



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- c3. Identify potential hazard of using instruments.
- c4. Practice of using instruments.
- d- General and transferable skills

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

- d1. Work in groups and manage time.
- d2. Develop the method of diagnosis in the field.
- d3. Ascertain the diagnosis of different diseases and differential diagnosis.

d4. Exchange the knowledge of the diagnosis of different disease conditions among practitioners.

- d5. Maintain a professional image concerning behavior, dress and speech.
- d6. Be responsible toward work and instruments.
- d7. Communicate effectively with public, colleagues and appropriate authorities.

d8. Achieve computer skills necessary to make use of medical databases and use the internet for communication.

4-Topics and contents

Course	Торіс	No. of hours	Lectures	Practical
5th year-1st semester Application of Endoscopy and ultrasonography in Internal Medicine (Pract. 1h./week)	1- Basics of new modalities of diagnosis in veterinary medicine (Physics of ultrasonography and endoscopy, application on phantom, preparation of ultrasonography and endoscopy for animals).	3	-	3
	2- Preparation for endoscopic interventions (preparation of animal for examination by ultrasonography and endoscopy).	2	-	2
	3- Systemic examination by ultrasonography and/or endoscopy (Digestive system (stomach, lower digestive system, colon, liver, pancrease) urinary system, respiratory system and sinuses, cardiovascular system , Heart, mammary gland examination, eye)	8	_	8
Total		13	-	13





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5-Teaching and learning methods

5.1. White board and data-show presentations.

5.1.1. Illustrations, charts, CD's, PowerPoint slides and recorded videos.

5.3- Practical lessons in faculty farm and on clinical cases from the faculty farm or from outside the faculty.

6-Teaching and learning methods for the students with disabilities

6.1. Not applicable.

7-Student assessment

7.1.	Assessments	methods:
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Mathad	Matrix alignment of the measured ILOs/ Assessments methods				
Method	K&U	I.S	P&P.S	G.S	
Student activities			-c1-c4	d1-d8	
Practical Exam	a1-a4	b1- b4	c1-c4		

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	15 th week
student activities	During the course

7.3. Weight of assessments:per semester:

Assessment Weight of assessment	
Practical exams	80%
student activities	20%

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, Billiere Tindall, 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., Billiere Tindall, London.

3- Large Animal Internal Medicine (1998): Timthy, 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



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

- <u>www.ekb.eg/ar</u>: Egyptian knowledge bank.
- -www.Sciencedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

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Topics		Week	Intended learning outcomes of course (ILOs)			
			K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
1.	Basics of new modalities of diagnosis in veterinary medicine (Physics of ultrasonography and endoscopy, application on phantom, preparation of ultrasonography and endoscopy for animals).	1-3	a1- a4	b1-b4	-	d1-d8
2.	Preparation for endoscopic interventions (preparation of animal for examination by ultrasonography and endoscopy).	4-5	a1-a4	b1-b4	c1-c4	d1-d8
3.	Systemic examination by ultrasonography and/or endoscopy (Digestive system (stomach, lower digestive system .colon) urinary system, respiratory system and sinuses, cardiovascular system , Heart, mammary gland examination, eye)	6-13	a1-a4	b1-b4	c1-c4	d1-d8