



Course specification

1-Basic information

Course Code:	IMD:4143
Course title :	Veterinary Internal Medicine (Part I)
Academic year:	4th academic year
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	5 hours/week, (Lecture 2h/week, Practical 3h/week)
Approval Date	9/2019

2-Professional information

Overall aims of course:

As the internal veterinary medicine is a close block in the faculty of veterinary medicine, the course aims to:

- 1-Recognize the normal healthy status vs. the abnormal pathological status (disease condition) in different animal species (farm animals and pets)
- 2-Recognize the different abnormalities and clinical problems in different animal species (farm animals and pets).
- 3- Determine the cause (s), the pathophysiology, the data for diagnoses, and the differential diagnoses of similar disease conditions.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a1. Recall essential academic data that are essential for clinical studies.
- a2. Describe the structure(s) and function(s) of healthy animals, which will allow students to recognize and understand abnormal, and disease states of body systems in different animal species.
- a3. Illustrate the general characterizations of diseases in each animal species.
- a4. Describe the cause(s), pathogenesis, clinical symptoms, investigations, treatment and prognosis of the most important internal medical diseases
- a5. Identify the diagnosis steps and treatment of diseased cases.
- a6. Recognize veterinary clinical examination.

b- Intellectual skills

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

- b1. Compare between healthy and diseased animal.
- b2. Differentiate between the possible diseases causing the similar clinical manifestations.
- b3. Interpret the results of clinical examination, lab and different modalities of diagnosis.
- b4. Integrate lab and different modalities of veterinary clinical examinations.
- b5. Make a decision of diagnosis, prognosis and treatment and management of the problem.
- b6. Deal with the drugs used in veterinary field and economical losses in the animal farming.



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c- Professional and practical skills

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

- c1. Practice the instruments and tools for clinical examination.
- c2. Perform the proper clinical examinations for animal examination.
- c3. Obtain the meaningful clinical data and abnormalities (clinical signs and findings) from the investigated animals.
- c4. Demonstrate the incidence and clinical findings of the disease conditions.
- c5. Use drug therapy and treatment in veterinary field.

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. Demonstrate the clinical work under the field condition by medical campaigns.
- d3. Communicate effectively with public, colleagues and appropriate authorities.
- d4. Achieve computer skills necessary to make use of medical databases and use the internet for communication.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
4th year-1st semester Internal medicine (Part I) (Lec. 2 h./week, Pract. 3h./week)	1-General systemic states (Disturbances in body fluids, electrolytes and acid-base balance, disturbances in body temperature, toxemia, septicemia, viremia, shock, edema, pain, fluid therapy)	9	4½	-
	2- Diseases of cardiovascular system. (Principles of circulatory failure , Manifestations of circulatory failure , Special examination of the cardiovascular system, Arrhythmias, Diseases of the heart, Diseases of the blood vessels)	17	4	3
	3- Diseases of respiratory system (principles of respiratory diseases, hypoxia, rhinitis, sinusitis, guttural pouch affection, laryngitis, tracheitis, bronchitis, pneumonia, pleurisy)	18	4½	3
	4-Introduction and terminology to veterinary clinical examination.	3	-	1
	5-The Methods of clinical examinations	3	-	1



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	in Veterinary field. (inspection, palpation, percussion, auscultation, ballottement, tactile percussion, auscultation percussion technique)			
	6-Preliminary clinical examinations (Taking animal temperature, pulse, respiration, clinical examination of mucus membranes and lymph nodes)	15	-	5
Total		65	13 (X2)	13 (X3)

5-Teaching and learning methods

5.1. Lectures (brain storming, discussion) in which one or more of the following facilities are used:

5.1.1. White board and data-show presentations.

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

5.2- Self learning by preparing essays and presentations (computer researches).

5.3- Practical study (practical lessons in faculty farm, clinical cases from the faculty farm or from outside the faculty, and training visits (Visits to animal farms, field trips....etc).

6-Teaching and learning methods for the students with disabilities

6.1. Not applicable.

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 Exam	a3-a6	b1-b6	----	----
Practical Exam	-----	-----	c1-c5	-----
Oral Exam	a1-a6	b1- b6	-----	d1-d4
Activities	a1-a6	b1- b6	c1-c5	d1-d4

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 th week
Final exams	15 th -17 th week
Oral Exam	Managed by the department
Activities	Along the semester course



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7.3. Weight of assessments: per semester:

Assessment	Weight of assessment
Practical exams	20%
Final exams	50%
Oral exams	20%
Activity	10%
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, 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): Timothy, H. Oglivie, Williams & Wilkins.
- 4- Small Animal Internal Medicine (1997): Darcy, Show and Sherri Ihle, Williams & Wilkins.
- 5-Handouts.

**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. 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



Beni-Suef University
Faculty of Veterinary Medicine



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- www.ekb.eg/ar: Egyptian knowledge bank.
- www.Sciedirect.com
- www.Pupmed.com
- www.google.com
- www.FAO

Course Coordinators

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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.	General systemic states (Disturbances in body fluids, electrolytes and acid-base balance, disturbances in body temperature, toxemia, septicemia, viremia, shock, edema, pain, fluid therapy)	Lectures:1-5 (4½ week/9hrs)	a1-a6	b1-b6	---	---
2.	Diseases of cardiovascular system. (Principles of circulatory failure , Manifestations of circulatory failure , Special examination of the cardiovascular system, Arrhythmias, Diseases of the heart, Diseases of the blood vessels)	Lectures: 5-9 (8 hours)	a1- a6	b1-b6	----	----
		Practical: 8-10	-----	----	c1-c5	d1-d4
3.	Diseases of respiratory system (principles of respiratory diseases, hypoxia, rhinitis, sinusitis, guttural pouch affection, laryngitis, tracheitis, bronchitis, pneumonia, pleurisy)	Lectures: 9-13 (9 hours)	a1- a6	b1-b6	----	----
		Practical: 11-13	----	---	c1-c6	d1-d4
4.	Introduction and terminology to veterinary clinical examination.	Practical: 1	---	----	c1-c4	d1-d4
5.	The Methods of clinical examinations in Veterinary field. (inspection, palpation, percussion, auscultation, ballottement, tactile percussion, auscultation percussion technique)	Practical: 2-3	---	----	c1-c4	d1-d4
6.	Preliminary clinical examination (Taking animal temperature, pulse, respiration, clinical examination of mucus membranes and lymph nodes) [last first week for revision, and the last week for practical exams]	Practical: 4-7	---	----	c1-c4	d1-d4