



Course specification

1-Basic information

Course Code:	IMD:4251
Course title :	Veterinary Internal Medicine (Part II)
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 in different animal species (farm animals and pets)
- 2-Acquire the basic information about diagnosis and treatment methods in veterinary field.
- 3-Recognize the different abnormalities and clinical problems in different animal species (farm animals and pets).
- 4-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. List 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. Recognize the cause(s), pathogenesis, clinical symptoms, investigations, treatment and prognosis of the most important internal medical diseases
- a5. Elicit the diagnosis steps and treatment of diseased cases.
- a6. Ascertain knowledge of the best practice in solving animal disease Problem.

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. Integrate the diagnoses by using lab and different modalities of diagnosis.
- b4. Interpret the results of clinical examination, lab and different modalities of diagnosis
- 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. Construct the right clinical data and abnormalities (clinical signs and findings) from the investigated animals.
- c4. Describe the incidence and clinical findings of the disease conditions.
- c5. Correctly use drugs and treatment.

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 as 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-2nd semester Internal medicine (Part II) (Lec. 2 h./week, Pract. 3h./week)	1-Diseases of urinary system (principles of urinary system diseases, nephritis, hydronephrosis, urethritis, cystitis, urolithiasis, urethritis, urinary bladder incontinence)	22	5	4
	2- Diseases of musculoskeletal system. (Principal manifestations of musculoskeletal disease, Diseases of muscles, Diseases of bones, Diseases of joints, Congenital defects of muscles, bones and joints)	14	4	2
	3- Diseases of the skin, conjunctiva and external ear.	23	4	5
	4-Revision on the preliminary clinical examination, and clinical examination of the cardiovascular, and respiratory systems.	6	-	2
Total		65	13 (X 2)	13 (X 3)



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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	a4-a7	b1-b6	----	----
Practical Exam	a1,a2,a3	-----	c1-c5	-----
Oral Exam	a1-a7	b1- b6	-----	d1-d4
Activities	a1-a7	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

7.3. Weight of assessments: per semester:

Assessment	Weight of assessment
Practical exams	20%
Final exams	50%
Oral exams	20%
Activity	10%
Total	100%



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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 by the lecturers.

**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

- www.ekb.eg/ar: Egyptian knowledge bank.
- www.Sciencedirect.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.	1-Diseases of urinary system (principles of urinary system diseases, nephritis, hydronephrosis, urethritis, cystitis, urolithiasis, urethritis, urinary bladder incontinence)	Lecture: 1-5	a1-a6	b1-b6	---	----
		Practical: 3-6	-----	---	c1-c5	d1-d4
2.	2- Diseases of musculoskeletal system. (Principal manifestations of musculoskeletal disease, Diseases of muscles, Diseases of bones, Diseases of joints, Congenital defects of muscles, bones and joints)	Lecture: 6-9	a1- a6	b1-b6	----	-----
		Practical:7-10	---	-----	c1-c5	d1-d4
3.	3- Diseases of the skin, conjunctiva and external ear.	Lecture: 10-13	a1- a6	b1-b6	-----	-----
		Practical: 11-13	----	-----	c1-c5	d1-d4
4.	4-Revision on the preliminary clinical examination, and clinical examination of the cardiovascular and respiratory systems.	1-2	--	-----	c1-c5	d1-d4