



Beni-Suef University
Faculty of Veterinary Medicine
Pathology department
Course specification



1-Basic information

Course Code:	PAT: 4250
Course title :	Pathology of Viral Diseases and Postmortem Examination
Academic year:	4 th Academic Year, 1 st semester, 2018/2019
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	4 hours/week, (2 Lect./week, 2 Practical/week)
Approval Date	23/9/2017

2-Professional information

Overall aims of course:

This course aims to:

- 1- Know how to perform post- mortem examination, reporting and good sampling.
- 2- Understand mechanisms by which diseases developed, progressed and squealed.
- 3- Understand the macroscopic & microscopic morphological alterations associated with the infectious diseases of domestic animals and poultry.
- 4- Acquire the practices necessary for identifying the causes of the pathological alterations.
- 5- Correlate between specific alterations with definite cause.

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 his information about the post- mortem examination and reporting.
- a2 - Outline the gross and microscopic lesions of viral diseases of the domestic animals and poultry.
- a3- Describe mechanisms of pathological alterations due to different biological viral causes.

b-Intellectual skills

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

- b1. Discriminate the characteristic anatomical and histopathologic changes of viral diseases.
- b2. Group viral diseases according to animal species and target tissue/organ.
- b3. Differentiate between tissue/organ appearance in healthy and diseased domestic animals.
- b4. Interpret the post mortem and microscopic lesions in tissues of diseased animals.



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b5. Diagnose differentially between diseases of domestic animals on pathological bases.

c-Professional and practical skills

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

- c1- Select and prepare appropriate necropsy samples.
- c2- Perform histopathologic diagnosis of the prepared specimens using light microscope.
- c3- Perform post mortum examination.
- c4- Prepare professional pathological reports.

d-General and transferable skills

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

- d1- Demonstrate teamwork and communication skills.
- d2- Utilize computer and internet skills.
- d3- Utilize the internet skills on the electronic pathological courses.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Week (s)	Practical
Title (Lec. 2 h./week, Pract. 2h./week)	Postmortem examination	4	2	1 st	2
	FMD, VS, and BPS	4	2	2 nd	2
	CP, BVD and MD	4	2	3 rd	2
	MCF, , IBR, PI3, and Ephemeral fever	5	3	4 th 5 th	2



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	RVF, BT, Leucosis, COE	5	3	5 th 6 th	2
	Pox, LSD, and Papillomatosis	4	2	7 th	2
	TSE	4	2	8 th	2
	AHS, Equine encephalomyelitis, EI, EA	4	2	9 th	2
	Canine distemper and Rabies	4	2	10 th	2
	Pathology of Poultry viral diseases	6	4	11 th 12 th	2
	Student's activities (Collect pathology specimens, Preparing pathology assays from the library and Sharing in department pathology rounds).	2	2	13 th	--
	Total	46	26		20

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows.
 5.2- Self learning by preparing essays and presentations (computer researches and faculty library) and using e-learning web site: <http://cms.nelc.edu.eg>
 5.3- Practical (models, samples of dead necropsied animals and monitoring of pathological lesions grossly then examination microscopically).

6-Teaching and learning methods for the students with disabilities

Office hours and special meeting.

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
Final Exam	a1,a2,a3	b1, b2,b3,b5	c4	d2
Practical Exam		b1,b2 and b3	c1,c2,c3,c4	d2
Oral Exam	a1,a2,a3	b2,b4,b5	c1	d1



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7.2. Assessment schedules/ semester:

Method	Week(s)
Practical exams	Last 14 th week in semester
Final exams	Last 15 th week in semester
Oral Exam	Last 15 th week in semester
Student activities	During semester

7.3. Weight of assessments/ semester:

Assessment	Weight of assessment
Practical exams	30%
Oral exams	20%
Final exams	50%
Student activities	10%
Total	100%

8- List of references

8.1. Notes and books:

Departmental notes on: Theoretical and practical course notes on Pathology of viral diseases
Theoretical and practical course notes on Pathology of bacterial diseases
Text book of Animal diseases
By staff members of Pathology, Fac. Vet. Med., Beni-Suef University

8.2. Essential books:

- Jubb, K.V., P.C. Kennedy and N. Palmer (2016) 6th ed. Pathology of domestic animals. Saunders, Elsevier, Philadelphia. **(Present in the library of the faculty)**
- Jones, T. C., Hunt, Ronald D., and King, Norval W. (1996) 6th ed. Veterinary Pathology. Academic press, N. Y. USA. **(Present in the library of the faculty)**
- Maxie, G., 2005. Pathology of Domestic Animals. 5th Ed., Mosby Elsevier, USA.
- Gyles, C.L., 2004. Pathogenesis of Bacterial Infections in Animals. 3rd Ed., Blackwell Publ., USA.

8.3. Recommended texts:

- Cheville, N.F., 2006. Introduction to Veterinary Pathology. 3rd Ed., Blackwell Publishing.
- McGavin, M.D., 2007. Pathologic Basis of Veterinary Disease. 5th Ed., Mosby Elsevier, USA.
- Dijk, J.V., Gruys, E. and Mouwen, J., 2006. Color Atlas of Veterinary Pathology. 2nd Ed., Saunders Ltd.



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8.4. Journals, Websitesetc

Journals:

- * Egyptian Journal of Comparative Pathology and Clinical Pathology.
- * Veterinary Pathology.
- * Journal of Comparative Pathology.
- * Pathologia Veterinaria.
- * American Journal of Pathology.
- * Journal of Pathology and Bacteriology.
- * Archive of Pathology.
- * Veterinary Record.
- * Canadian Journal of comparative Medicine.
- * American Journal of veterinary research.
- * Research on veterinary Science.

Websites:

- * <http://cms.nelc.edu.eg>
- * www.hisopathologicallab.com
- * [Home Page : International Veterinary Information Service \(IVIS\): http://www.ivis.org/home.asp](http://www.ivis.org/home.asp)
- * [NetVet Veterinary Resources , Veterinary Specialties: http://netvet.wustl.edu/vspecial](http://netvet.wustl.edu/vspecial)
- * [Veterinary Infectious Diseases:
http://www.campusexplorer.com/colleges/major/5FFE3D6F/Veterinary-Medicine/BE7077CB/Veterinary-Infectious-Diseases-Cert-MS-PhD/](http://www.campusexplorer.com/colleges/major/5FFE3D6F/Veterinary-Medicine/BE7077CB/Veterinary-Infectious-Diseases-Cert-MS-PhD/)

Course Coordinators

Dr. Nesreen Mohamed Safwat

Head of Department

Prof. Dr. Khalid Ali



Course specification

	Topic	Week	Intended learning outcomes of course (ILOs)			
			K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
First semester	Postmortem examination	1 st	1, 2, 3	1,2 , 3, 4,5	2	1,3
	FMD, VS, and BPS	2 nd	1, 2, 3	1,2 , 3, 4,5	2	1,3
	CP, BVD and MD	3 rd	1, 2, 3	1,2 , 3, 4,5	2	1,2,3
	MCF, , IBR, PI3, and Ephemeral fever	4 th 5 th	1, 2, 3	1,2 , 3, 4,5	2,3,4	1,3
	RVF, BT, Leucosis, COE	5 th 6 th	1, 2, 3	1,2 , 3, 4,5	1, 2,4	1,3
	Pox, LSD, and Papillomatosis	7 th	1, 2, 3	1,2 , 3, 4,5	1, 2	1,2
	TSE	8 th	1, 2, 3	1,2 , 3, 4,5	1, 2	1,3
	AHS, Equine encephalomyelitis, EI, EA	9 th	1, 2, 3	1,2 , 3, 4,5	1, 2	1,3
	Canine distemper and Rabies	10 th	1, 2, 3	1,2 , 3, 4,5	1, 2	1,3
	Pathology of Poultry viral diseases	11 th 12 th	1, 2, 3	1,2 , 3, 4,5	1, 2	1,3
	Student's activities (Collect pathology specimens, Preparing pathology assays from the library and Sharing in department pathology rounds).	13 th	1, 2, 3	1,2 , 3, 4,5	1, 2,3,4	1,3

