



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



1-Basic information

Course Code:	PAT: 4142
Course title :	Pathology of Bacterial, Mycotic and Parasitic diseases
Academic year:	4 th Academic Year, 2 nd semester, 2018/2019
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	4 hours/week, (2 Lect./week, 2 Practical/week)
Approval Date	/9/2019

2-Professional information

Overall aims of course:

This course aims to:

- 1- provide the student with mechanisms by which diseases developed, progressed and squealed.
- 2- provide the student with the macroscopic & microscopic morphological alterations associated with the infectious diseases of domestic animals and poultry.
- 3- Acquire the practices necessary for identifying the causes of the pathological alterations.
- 4- 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 - Outline the gross and microscopic lesions of bacterial and parasitic diseases of the domestic animals and poultry.
- a2- Describe mechanisms of pathological alterations due to different biological causes (bacterial and parasitic).

b-Intellectual skills

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

- b1. Discriminate the characteristic anatomical and histopathologic changes of bacterial and parasitic and diseases.
- b2. Grouping bacterial, and parasitic diseases according to animal species and target tissue/organ.
- b3. Differentiate between tissue/organ appearance in healthy and diseased domestic animals.
- b4. Interpret the macroscopic 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. 2h./week, Pract. 2h./week)	Pathology of bacterial, mycotic and parasitic diseases				
	Tuberculosis	4	2	1 st	2
	Paratuberculosis, Pseudotuberculosis, Actinomycosis, and Actinobacillosis	5	3	2 nd 3 rd	2
	Colibacillosis, Paratyphoid, Navel ill and Calf Diphtheria	5	3	3 rd 4 th	2
	Black leg, black dis, enterotoxaemia, and Pulpy kidney	4	2	5 th	2
	Bacillary hemoglobin urea , and malignant edema	4	2	6 th	2



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Anthrax, Hemorrhagic septicemia , and Contagious Bovine Pleuropneumonia, Oedematous skin disease	5	3	7 th 8 th	2
Brucellosis, Vibriosis , Leptospirosis, and Listeriosis	5	3	8 th 9 th	2
Glanders, Strangles, and Ulcerative lymphangitis and Epizootic lymphangitis	4	2	10 th	2
Parasitic diseases	4	2	11 th	2
Postmortem examination and reporting (Part two)	4	2	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	b1, b2,b3,b5	c4	d2
Practical Exam	a1,a2	b1,b2 and b3	c1,c2,c3,c4	d2



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Oral Exam	a1,a2	b2,b4,b5	c1	d1

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.



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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.

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](http://www.ivis.org/home.asp) : International Veterinary Information Service (IVIS): <http://www.ivis.org/home.asp>
- * [NetVet Veterinary Resources](http://netvet.wustl.edu/vspecial) , [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



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	Topic	Week	Intended learning outcomes of course (ILOs)			
			K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Second semester	Paratuberculosis, Pseudotuberculosis, Actinomycosis, and Actinobacillosis	2 nd 3 rd	1, 2	1,2,3,4	1,2	1,2,3
	Colibacillosis, Paratyphoid, Navel ill and Calf Diphtheria	3 rd 4 th	1, 2	1,2,3,4	1,2,3	1,3
	Black leg, black dis, enterotoxaemia, and Pulpy kidney	5 th	1, 2	1,2,3,4	1,3	1,3
	Bacillary hemoglobin urea , and malignant edema	6 th	1, 2	1,2,3,4	1,2,3	1,2,3
	Anthrax, Hemorrhagic septicemia , and Contagious Bovine Pleuropneumonia, Oedematous skin disease	7 th 8 th	1, 2	1,2,3,4	1,2, 3,	1,2,3
	Brucellosis, Vibriosis , Leptospirosis, and Listeriosis	8 th 9 th	1, 2	1,2 , 3, 4,5	2	2,3
	Glanders, Strangles, and Ulcerative lymphangitis and Epizootic lymphangitis	10 th	1, 2	1,2 , 3, 4,5	1,2	1,3
	Parasitic diseases	11 th	1, 2	1,2 , 3, 4,5	2	1,3
	Postmortem examination and reporting	12 th	1, 2	1,2 , 3, 4,5	2	1,2,3
	Student's activities (Collect pathology specimens, Preparing pathology assays from the library and Sharing in department pathology rounds).	13 th	1, 2	1,2 , 3, 4,5	1,3,4	1,2,3

