

Course specification

=1-Basic information				
Course Code:				
Course title :	General and systemic pathology			
Academic year:	3 rd .year, 2016/2017			
Program title:	B. Sc. Veterinary Medicine			
Contact hours/ week	Lecture : 3 hours/week - practical: 4 Practical/week (2 semesters)			
Approval Date	5/9/2010			

2-Professional information

Overall aims of course:

This course aims to:

1- Define, describe, classify and identify the difference between the normal (or healthy) gross and microscopic anatomy and the abnormal (diseased) gross and microscopic anatomy.

2- identify the mechanisms, by which the disease developed, progressed and squealed by identifying different macroscopic & microscopic changes revealed in the tissue during diseases by good preparation and manipulation of good representative samples of the diseases.

3- Describe the distribution of pathological lesions in the different organs and tissues.

4- Represent the pathological changes diagrammatically.

5- Work in group and exhibiting the sense of beauty and neatness.

3- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding:

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

al-List the general pathological changes in the tissues and organs.

a2-Define the relationship between causes and tissue/organ.

a3- Define the different types pathological lesions.

a4-Outline the types and classification of different tissue/organ changes.

a5-Describe the mechanisms of pathological alterations.

a6-Illustrate the molecular and cellular response of the living body when exposed to injurious agent.

a7- outline the different pathological terms.

b-Intellectual skills

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

b1-Classify the pathological changes occurred in the tissue /organs on the general pathology bases

b2-Differentiate between tissue/organ appearance in health and diseased animal.

b3-classify good selection of tissue specimens for pathological diagnosis on print-finger bases..

b4-Integrate and predict the prognosis and sequllae of diseases..



BeniSuefUniversity Faculty of Science

Course specification

c-Professional and practical skills

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

- c1- Collect the experience in gross examination, sampling and reporting.
- c2- Perform good management in microscopy and description of different changes in different tissues.
- c3-Utilize the pathology as a diagnostic tool.
- c4- Prepare the graduate to get the ability of decision making..

d-General and transferable skills

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

- d1- Work in a group and manage time.
- d2- Exhibits the sense of beauty and neatness.
- d3- Demonstrate the ability of problem definition and increase
- d4-Increase the ability of problem solving
- d5-Utilize the computer, microscope and internetso, will.

4-Topics and contents

First semester						
Course	Торіс	No. of hours	Lectures	Practical		
	Course description - Introduction to general pathology	4	2	2		
(Lec. 3h./week, Pract. 2h./week)	-Disturbances in cell metabolism Disturbances of cell protein Lipid, carbohydrates metabolism	5	3	2		
Pract. 2	-Disturbances in cell metabolism Dist. Of minerals and pigment metabolism	5	3	2		
ek,]	- Necrosis and apoptosis – gangrene	5	3	2		
3h./we	-Disturbances in circulation: (congestion-edema-shock-hemorrhage)	5	3	2		
	-Disturbances in circulation (thrombosis-embolism-infarction)	5	3	2		
First semester	-Inflammation: (changes of tissue in inflammation-chemical mediators)	5	3	2		
First s	-Inflammation (types of inflammation (inflammatory exudate, duration, squalae, & degeneration)	5	3	2		
	- Healing and repair Hypersensitivity and immunodeficiency	5	3	2		



BeniSuefUniversity Faculty of Science

•	• ••	. •
Course	specifica	tion
COULDE	specifica	

	<u>Course specification</u>			
	Assignments :	12	3	3
	Students activities			
	- Collect pathology, specimens.			
	- Writing assays.			
	Pathology rounds			
	Second semester			
ek)	-Tumors (Nomenclature, causes, classification -Benign and malignant epithelial and non- epithelial tumors)	5	3	2
.h./we	-Pathology of Digestive system (Oral cavity-Salivary glands)	5	3	2
Second semester (Lec. 3h./week, Pract. 2h./week)	-Pathology of Digestive system (Esophagus- Fore stomachStomach- Intestine -Liver –Protenium)	5	3	
	-Pathology of Respiratory system (Upper respiratory tract)	5	3	2
	-Pathology of Respiratory system (Lower respiratory tract)	5	3	2
(Le	-Pathology of Cardiovascular system	5	3	2
ter	-Pathology of Nervous system	5	3	2
mes	-Pathology of Urinary system	5	3	2
l sei	Assignments :	12	3	3
Second	Students activities - Collect pathology specimens. - Writing assays. - Pathology rounds			

5-Teaching and learning methods

5.1- Lectures (brain storm, discussion) using board, data shows and multimedia

5.2- Self learning by preparing essays and presentations (computer researches and faculty library), sample collections and preparation, and histopathology and Gross pathology rounds. 5.3- Practical (gross and microscopic examination and electronic slides).

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			



Course specification

	K&U	I.S	P&P.S	G.S			
Final Exam	1-7	1-4					
Mid-Term Exam	1-7	1-4					
Practical Exam			1-4				
Semester work				1, 2			
7.2. Assessment schedules/semes	ster						
Method		Week(s)					
Mid-term exam		7					
Practical exams		14-15					
Final exams		managed by administrations					
Student activity		<mark>8-15</mark>					

7.3. Weight of assessments /semester

Assessment	Weight of assessment
Mid-term exam	
Practical exams	15
Oral exams	10
Final exams	25
Student activity (Essay)	
Total	(50) 100%

8- List of references

8.1. Notes and books

Departmental notes on: -

- Deeb, S.; Samy, M.; El-Begawey, M.; Shalaby, A.; El-Nesr, Kh.;Mahdy, E.; El-Nahas, S., and Taha, Kh. (2014) Text book of general pathology, BeniSuef University.
- Deeb, S.; Samy, M.; El-Begawey, M.; Shalaby, A.; El-Nesr, Kh.;Mahdy, E.; El-Nahas, S., and Taha, Kh. (2014) Text book of systemic pathology, BeniSuef University.
- Deeb, S.; Samy, M.; El-Begawey, M.; Shalaby, A.; El-Nesr, Kh.;Mahdy, E.; El-Nahas, S., and Taha, Kh. (2014) Practical general pathology, BeniSuef University.
- Deeb, S.; Samy, M.; El-Begawey, M.; Shalaby, A.; El-Nesr, Kh.;Mahdy, E.; El-Nahas, S., and Taha, Kh. (2014) Practical systemic pathology, BeniSuef University.

8.2. Essential books:

- Jubb,K.V., P.C.Kennedy and N.Palmer (2008) veterinary pathology 4th ed. San Diego, New york
- Jones, T.C., Hunt, R.D. and King, N.W (2008)Veterinary pathology. 6th ed. Williams and wilkinsAwaverlycompany.



BeniSuefUniversity Faculty of Science

Course specification

8.3. Recommended texts

8.4. Journals, Websitesetc

Journals:

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

Websites:

www.neclc.edu.eg www.asvp.asn.au.com www.genengnews.com www.altcancer.com Course Coordinators

Head of Department

Dr. EL-Shaymaa N. EL-Nahass

Prof. Dr. Khalid A. El-Nesr



Course specification

	 Topic	Topic Week Intended learning outcomes of course (ILOs)				
			K&U(a)	I.S(b)	P.P.S (c)	G.T.S (d)
	Course description	1	1, 2, 3,5,7	1.2	1.4	1.(
	- Introduction to general pathology			1,3	1,4	1,6
	-Disturbances in cell metabolism	2 & 3	1, 2, 3,4,5,7	1, 3, 4	1, 2	1
	Disturbances of cell protein Lipid, carbohydrates metabolism					
	-Disturbances in cell metabolism	4	1, 2, 3,5,6,7	1, , 3, 4	1, 2	1,2
	Dist. of minerals and pigment metabolism					
	- Necrosis and apoptosis – gangrene	5	1, 2, 3,5,7	1, 3, 4	1, 2	1
ster	-Disturbances in circulation:	6	1, 2, 3,4,5,7	1, 3, 4	1, 2	1,2
mes	(congestion-edema-shock-hemorrhage)					
First semester	Assignments (midterm exam – student activities)	7	1, 2, 3,5,7			
	-Disturbances in circulation	8	1, 2, 3,5,7	1, 3, 4	1, 2	1, 2
	(thrombosis-embolism-infarction)					
	-Inflammation: (changes of tissue in inflammation-chemical mediators)	9	1, 2, 3,5,6,7	1, 3, 4	1, 2	1
	-Inflammation	10	1, 2, 3,5,6,7	1, 3, 4	1, 2	1
	(types of inflammation (inflammatory exudate, duration, squalae, & degeneration)		3 3 - 3 - 3 - 3 -	3 - 3	3	
	- Healing and repair- Hypersensitivity and immunodeficiency	11	1, 2, 34,,5,7	1, 3, 4	1, 2	1
	- Revision and discussion	12	1, 2, 34,,5,7	1, 3, 4	1, 2	1
	Assignments (student activities)	13	1, 2, 34,,5,7	1, 3, 4	1, 2	1



BeniSuef University Faculty of veterinary medicine

Course specification

	Course spec					
	Tumors	1&2	1, 2, 3	1, 3, 4	1, 2	1
	(Nomenclature, causes, classification					
	-Benign and malignant epithelial and non-epithelial tumors)					
	Pathology of Digestive system	3	1-3	1,2,3,4	1,2,3,4	1
	(Oral cavity-Salivary glands)					
	Pathology of Digestive system	4&5	1,2, 5, 6	1,2,3,4	1,2,3,4	1
	(Esophagus- Fore stomachStomach- Intestine -Liver –					
<u>۔</u>	Protenium)					
semester	-Pathology of Respiratory system	6	2, 5, 6,7	1,2,3,4	1,2,3,4	1
ne	(Upper respiratory tract)					
sei	-Pathology of Respiratory system	7	2, 5, 6,7	1,2,3,4	1,2,3,4	1
pu	(Lower respiratory tract)					
Second	Midterm exam – student activities	9	1,2, 5, 6	1,2,3,4	1,2,3,4	
Ň	Pathology of Cardiovascular system	9	2, 5, 6	1,2,3,4	1,2,3,4	1
	-Pathology of Nervous system	10	2, 5, 6	1,2,3,4	1,2,3,4	1
	Pathology of Urinary system	11&12	2, 5, 6	1,2,3,4	1,2,3,4	1
	Assignments :	13	2, 5, 6	1,2,3,4	1,2,3,4	1
	Students activities					
	Collect pathology specimens.					
	Writing assays.					
	Pathology					