



## Course specification

### 1-Basic information

<b>Course Code:</b>	PAT 3234
<b>Course title :</b>	Systemic pathology
<b>Academic year:</b>	3 <sup>rd</sup> .year, 2018/2019
<b>Program title:</b>	B. Sc. Veterinary Medicine
<b>Contact hours/ week</b>	Lecture : 2 hours/week - practical: 2 Practical/week
<b>Approval Date</b>	.....September 2017

### 2-Professional information

#### **Overall aims of course:**

#### **This course aims to:**

- 1- Define and identify the difference between the normal (or healthy) gross and microscopic anatomy and the abnormal (diseased) gross and microscopic anatomy during the studying of different systems.
- 2- Identify the mechanisms, by which the disease developed, progressed and squealed by identifying different macroscopic & microscopic changes revealed in different systems during the course of certain diseases.
- 3- Describe the distribution of pathological lesions in the different organs and tissues.
- 4- Represent the pathological changes diagrammatically .

### 3- Intended learning outcomes of course (ILOs)

#### **a-Knowledge and understanding:**

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

- a1- Enumerate different pathological changes in the tissues and organs.
- a2- Define the relationship between causes and tissue/organ.
- a3- Recognize the different types of pathological lesions in different systems.
- a4- Outline the types and classification of different tissue/organ changes.
- a5- Define the mechanisms of pathological alterations in different systems.
- a6- Illustrate the molecular and cellular response tissues when exposed to injurious agent.
- a7- Outline the different pathological terms in different tissues.

#### **b-Intellectual skills**

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

- b1- Classify the pathological changes occurred in the organs on the general pathology bases
- b2- Differentiate between organ appearance in health and diseased animal.
- b3- Select tissue specimens for pathological diagnosis on print-finger bases..
- b4- Integrate and predict the prognosis and sequellae of different pathological lesions in different systems.
- b5- Interpret the macroscopic and microscopic alterations in different tissues and organs.



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### c-Professional and practical skills

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

- c1-Practice the criteria of gross and microscopic examination in different systems.
- c2- Perform good management in microscopy and description of different changes in different organs.
- c3- Examine the pathological changes as a diagnostic base by the aid of light microscopy in examination of different systems.
- c4-Identify microscopically the different pathological lesions.
- c5- Prepare the graduate to get the ability of decision making during PM examination.

### 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-Produce reports.
- d3- Demonstrate the ability of problem definition.
- d4-Increase the ability of problem solving
- d5-Utilizethe computer, microscope and internet..

### 4-Topics and contents

Second semester (Lec. 3h./week, Pract. 2h./week)	-Pathology of Digestive system (Oral cavity-Salivary glands)	2	1 <sup>st</sup>	2
	-Pathology of Digestive system (Esophagus- Fore stomach- -Stomach- Intestine -Liver –Protenium)	2	2 <sup>nd</sup>	2
	-Pathology of Respiratory system (Upper respiratory tract)	2	3 <sup>rd</sup>	2
	-Pathology of Respiratory system (Lower respiratory tract)	2	4 <sup>th</sup>	2
	-Pathology of Cardiovascular system	2	5 <sup>th</sup>	2
	-Pathology of Nervous system	2	6 <sup>th</sup>	2
	-Pathology of Urinary system	4	7 <sup>th</sup> 8 <sup>th</sup>	4
	<b>Pathology of female genital system</b>	<b>4</b>	<b>9<sup>th</sup></b> <b>10<sup>th</sup></b>	<b>4</b>
	<b>Pathology of male genital system</b>	<b>4</b>	<b>11<sup>th</sup></b> <b>12<sup>th</sup></b>	<b>4</b>
	Assignments :	2	13 <sup>th</sup>	-



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	<b>Students activities</b> - Collect pathology specimens. - Writing assays. - Pathology rounds			
Total		24	13	24

### 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			
	K&U	I.S	P&P.S	G.S
Written Exam	1-7	1-5	-	1-5
Practical Exam			1-5	
Oral exam	1-7	1-5	1-5	1-5

#### 7.2. Assessment schedules/semester

Method	Week(s)
Practical exams	14 <sup>th</sup> semester
Final exams	15 <sup>th</sup> semester
Oral exam	15 <sup>th</sup> semester
Student activity	During semester

#### 7.3. Weight of assessments /semester

Assessment	Weight of assessment
Mid-term exam	--
Practical exams	(20) 20%
Oral exams	(20) 20%
Final exams	(50) 50%
Student activities (Essay)	10 (10%)
Total	(100) 100%



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### 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-Nahass, 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-Nahass, S., and Taha, Kh. (2014) Practical systemic pathology, BeniSuef University.

#### 8.2. Essential books:

- Jubb,K.V., P.C.Kennedy and N.Palmer (2007):Veterinary pathology 4<sup>th</sup> ed. San Diego, New york
- Jones, T.C., Hunt, R.D. and King, N.W (1996): Veterinary pathology. 6<sup>th</sup> ed. Williams and wilkinsAwaverlycompany.

#### 8.3. Recommended texts

None.

#### 8.4. Journals, Websites .....etc

##### 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](http://www.neclc.edu.eg)

[www.asvp.asn.au.com](http://www.asvp.asn.au.com)

[www.genengnews.com](http://www.genengnews.com)

[www.altcancer.com](http://www.altcancer.com)

Course Coordinators

Head of Department

Dr. EL-Shaymaa N. EL-Nahass

Prof. Dr. Khalid A. El-Nesr



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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)
	Assignments (student activities)	13	1, 2, 3,4,,5,7	1, 3, 4	1, 2	1-5
	<b>Pathology of Digestive system (Oral cavity-Salivary glands)</b>	1	1-3	1, 2,3,4,5	1-5	1-5
	<b>Pathology of Digestive system (Esophagus- Fore stomach- -Stomach- Intestine -Liver – Protenium)</b>	2	1-7	1, 2,3,4,5	1-5	1-5
	<b>-Pathology of Respiratory system (Upper respiratory tract)</b>	3	1-7	1, 2,3,4,5	1-5	1-5
	<b>-Pathology of Respiratory system (Lower respiratory tract)</b>	4	1-7	1, 2,3,4,5	1-5	1-5
	<b>Midterm exam – student activities</b>	5	1-7	1, 2,3,4,5	1-5	1-5
	<b>Pathology of Cardiovascular system</b>	6	1-7	1, 2,3,4,5	1-5	1-5
	<b>-Pathology of Nervous system</b>	7	1-7	1, 2,3,4,5	1-5	1-5
	<b>Pathology of Urinary system</b>	8	1-7	1, 2,3,4,5	1-5	1-5
	<b>Pathology of male genital system</b>	9&10	1-7	1, 2,3,4,5	1-5	1-5
	<b>Pathology of female genital system</b>	11&12	1-7	1, 2,3,4,5	1-5	1-5
	<b>Assignments : Students activities Collect pathology specimens. Writing assays. Pathology</b>	13	2, 6, 7	1,2,3,4	1-5	1-5



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