





Specification for Systemic and tumor Pathology course 2019/2020

A-Affiliation

| 1. | Relevant program | Bachelor of Veterinary Medical Science (BVMSc) |
|----|--------------------------------|---|
| 2. | Department offering the course | Pathology |

Date of specification approval: ministerial decree No. 1727 on 26/4/2017 (Approved in this template by the department council on 1/10/2019)

B-Basic information

| 1. | Course title | Systemic and tumor Pathology |
|----|-----------------|------------------------------|
| 2. | Course code | 314 (B) II |
| 3. | Level | 3 rd year |
| 4. | Semester | Second semester |
| 5. | Total hours | 4 |
| 6. | Lecture hours | 2 |
| 7. | Practical hours | 2 |

C-Professional Information

1- Course learning objectives

The aim of the course is to provide the students with a basic education about the systemic pathology which is concerned with the basic alterations in the tissues of different body systems as a result of diseases. and enable the students to gain the skills for histopathological diagnosis of neoplasm.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- al- Identify and describe different types of neoplasm
- a2- Define and identify pathological forms associated with different systems in the body
- a3- Mention the causes and pathogenesis of common lesions in different body organs.
- a4- Describe the postmortem and microscopic lesions.
- a5- List the significance and fate of different lesions

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Distinguish between various neoplasms.
- b2- Differentiate between various lesions in different body systems
- b3-Link between the cause and pathological lesion in different body systems.
- b4-Interpret the most important pathological changes in cells and tissues in







different body systems

b5-Correlate between macroscopic and microscopic lesion of different body systems

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Collect and prepare the tissue specimens for histopathological examination in different body systems.
- c2- Apply routine and special staining techniques of tissue sections in different body systems
- c3- examine macroscopic and microscopic changes in different body systems c4-write a report about pathological lesions in different body systems

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Searching skill.
- d2- Team working skill
- d3-Presentation skill
- d4- Report writing skill

3- Course contribution in the program ILOs:

| Cor | urse ILOS | Program ILOS |
|-----|-----------------------------------|-----------------|
| Α | Knowledge and understanding | a ⁷ |
| В | Intellectual skills | b ¹⁵ |
| С | Professional and practical skills | c ⁴ |
| D | General and transferable skills | $d^{1,6}$ |

3.1- Course contents:

| Topic | Lecture hours | Practical hours |
|------------------------------------|---------------|-----------------|
| Pathology of neoplasm | 6 | 8 |
| Pathology of digestive system | 4 | 4 |
| Pathology of respiratory system | 4 | 2 |
| Pathology of cardiovascular system | 2 | 2 |
| Pathology of urinary system | 4 | 4 |
| Pathology of male genital system | 2 | 2 |
| Pathology of female genital system | 2 | 2 |
| Pathology of nervous system | 2 | 2 |
| Pathology of haemopoietic system | 2 | 2 |
| Pathology of Skin | 2 | 2 |
| Total hours | 30 | 30 |

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

| Topic A) B) C) D) | |
|-------------------|--|
|-------------------|--|







| | | | | I ~ |
|--------------------|---------------|-------------|------------------|----------------|
| | Knowledge and | | Professional and | General and |
| | understanding | skills | practical skills | transferable |
| | | | | skills |
| neoplasm | a1 | b1 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| Pathology of | -2 -2 -4 -5 | 10101415 | -1 -2 -2 -4 | 11 10 10 14 |
| digestive system | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | 41 40 42 44 |
| respiratory system | | | 61, 62, 63, 64 | d1, d2, d3, d4 |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | | |
| cardiovascular | | | c1, c2, c3, c4 | d1, d2, d3, d4 |
| system | | | | |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| urinary system | | | 61, 62, 63, 64 | u1, u2, u3, u4 |
| Pathology of male | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| genital system | | | | |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| female genital | | | | |
| system | | | | |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| nervous system | / 7. | 4 | 0 | |
| Pathology of | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |
| haemopoietic | / / / | | | |
| system | | | | |
| Pathology of Skin | a2, a3, a4,a5 | b2,b3,b4,b5 | c1, c2, c3, c4 | d1, d2, d3, d4 |

4- Teaching, learning and assessment methods:

| | | Teaching and | | | | | assessment method | | | | | |
|-----------------------------|----|------------------|-----|---|---|----|-------------------|----------|---------|------|-----------|---------|
| IL | Os | Learning methods | | | | | | | | | | |
| | | L | P&M | D | P | Ps | Bs | semester | midterm | oral | practical | written |
| and | a1 | X | X | X | 0 | 0 | X | X | X | X | 0 | X |
| Knowledge and understanding | a2 | X | X | X | 0 | 0 | X | X | X | X | 0 | X |
| wlec erst | a3 | X | X | X | 0 | 0 | X | X | X | X | 0 | X |
| nou | a4 | X | X | X | 0 | 0 | X | X | X | X | 0 | X |
| X I | a5 | X | X | X | 0 | 0 | X | X | X | X | 0 | X |
| ıal | b1 | X | X | X | 0 | X | X | X | X | X | 0 | X |
| Intellectual skills | b2 | X | X | X | 0 | X | X | X | X | X | 0 | X |
| ellecti skills | b3 | X | X | X | 0 | X | X | X | X | X | 0 | X |
| Inte | b4 | X | X | X | 0 | X | X | X | X | X | 0 | X |
| | b5 | X | X | X | 0 | X | X | X | X | X | 0 | X |
| d Sal | c1 | 0 | X | X | X | X | 0 | X | 0 | X | X | 0 |
| and | c2 | 0 | X | X | X | X | 0 | X | 0 | X | X | 0 |
| al and practical | c3 | 0 | X | X | X | X | 0 | X | 0 | X | X | 0 |
| | c4 | 0 | X | X | X | X | 0 | X | 0 | X | X | 0 |
| Genera skills | d1 | X | 0 | X | | X | X | X | 0 | X | 0 | X |
| ienera skills | d2 | 0 | 0 | 0 | X | 0 | | X | 0 | X | 0 | 0 |
| 5 | d3 | 0 | X | 0 | 0 | 0 | 0 | X | 0 | X | 0 | 0 |







L:Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical, Ps: Problem solving, Bs: Brain storming

5- Assessment timing and grading:

| Assessment method | timing | grade |
|---------------------------------|-----------------------|-------|
| Mid-term exam and semester work | 6 th week | 15 |
| Practical exam | 14 th week | 20 |
| oral exam | End of semester | 15 |
| Written exam | End of semester | 50 |
| total | | 100 |

6- List of references

6.1- Course notes:

Systemic Veterinary Pathology and Practical histopathology edited by Staff Members of the Pathology department

6.2- Essential books (text books)

- J.L.Vegad (2015) A textbook of veterinary systemic pathology.
- Genti A. Sastry (2010) veterinary pathology
- J.E.Van Dijk (2007) Color Atlas of veterinary pathology.

6.3- Recommended books

- Course note.
- J.L.Vegad (2015) A textbook of veterinary systemic pathology
- D Gopalakrishna Rao (2009) Introduction to General Veterinary Pathology.

6.4- Periodicals, Web sites, ... etc

- Veterinary Pathology.
- www.IVIS.org.
- www.ekb.eg

7- Facilities required for teaching and learning

- Data show.
- White board.
- Histopathological examination unit
 Educational farm
- Central laboratory

| Course coordinator: | Prof Dr. Abd Elbaset I. El-Mashad |
|---------------------|-----------------------------------|
| Head of department | Prof Dr. Abd Elbaset I. El-Mashad |
| Signature | |

Date 1/10/2019