

Specification for Toxicology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Forensic Medicine and Toxicology

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	Toxicology
2.	Course code	412 (B) II
3.	Level	4 th 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 course provides candidate with basic information about veterinary medicine and skills required for identification of dead body, cause of death and criminal evaluation.

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

a- Knowledge and understanding

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

- a1- Identify the basic knowledge of toxicology, fate of poison , types of antidotes and general treatment.
- a2- Mention causes of poisoning either plants, heavy metal, pesticides, mycotoxins and corrosives.
- a3-Identify symptoms and P.M examination for each toxin
- a4- Explain the appropriate methods for diagnosis and differential diagnosis of different type of poison
- a5- Mention the veterinary therapy and principles for uses
- a6- Describe the basic knowledge about laboratory analysis for poisonous

b- Intellectual skills

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

- b1- Illustrate problem list
- b2- Demonstrate how case history, signs, P.M examination managed
- b3- Interpret the medical important of data collected.

b4- Analyze the results obtained from their investigation and their value.

b5- Practice to solve problems associated environmental pollution

c- Professional and practical skills

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

- c.1. Demonstrate the history of the case whether it is of an individual animal or a group of animals.
- c.2. Perform clinical examination of poisoned cases and collect relevant samples.
- c.3. Perform laboratory diagnostic procedures .
- c.4. Use more recent advanced techniques.
- c.5 Provide emergency care to all species of animals.
- c.6. Use appropriate safety to protect clients and co-workers.
- c.7. Implement several strategies to minimize the risk of contamination

d- General and transferable skills

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

- d1- Working under pressure.
- d2- Working in team.
- d3- Searching skill
- d4- Search for new technological methods for practical diagnosis

3- Course contribution in the program ILOs:

Course ILOS		Program ILOS
A	Knowledge and understanding	a ¹⁰
B	Intellectual skills	b ¹³
C	Professional and practical skills	c ¹¹
D	General and transferable skills	d ^{1,2,5,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
General toxicology	4	4
Corrosive poisons	4	4
Mycotoxicosis	4	4
Food poisoning	4	4
Radiation	4	4
Pesticide	4	2
Irritant poison	2	4
Poisonous plant	4	4
Total hours	30	30

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
General toxicology	a3,a5,a6	b1,b3,b4	c1,c2,c3	d1,d2,d3
Corrosive poisons	a2,a5,a6	b4,b5	c2,c5	d1,d2,d3
Mycotoxigenesis	a4,a5,a6	b3,b4,b5	c1,c4,c5	d1,d2,d4
Food poisoning	a4,a6	b1,b5	c2,c5,c6,c7	d1,d2,d4
Radiation	a4,a6,a5	b3,b4,b5	c2,c3,c5	d1,d2
Pesticide	a4,a5,a6	b1,b2,b5	c1,c3,c5,c6,c7	d1,d2,d3,d4
Irritant poison	a1,a6	b1,b5	c4,c5	d3,d4
Poisonous plant	a1,a6	b1,b5	c4,c5	d3,d4

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods						assessment method					
	L	P&M	D	P	Ps	Bs	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	X	X	X	0	0	X	X	X	X	0	X
	a2	X	X	X	0	0	X	X	X	X	0	X
	a3	X	X	X	0	0	X	X	X	X	0	X
	a4	X	X	X	0	0	X	X	X	X	0	X
	a5	X	X	X	0	0	X	X	0	X	0	X
	a6	X	X	X	0	0	X	X	0	X	0	X
Intellectual skills	b1	X	X	X	0	X	X	X	X	X	0	X
	b2	X	X	X	0	X	X	X	X	X	0	X
	b3	X	X	X	0	X	X	X	X	X	0	X
	b4	X	X	X	0	X	X	X	0	X	0	X
	b5	X	X	X	0	X	X	X	0	X	0	X
Professional and practical skills	c1	0	X	X	X	X	0	X	0	X	X	0
	c2	0	X	X	X	X	0	X	0	X	X	0
	c3	0	X	X	X	X	0	X	0	X	X	0
	c4	0	X	X	X	X	0	X	0	X	X	0
	c5	0	X	X	X	X	0	X	0	X	X	0
	c6	0	X	X	X	X	0	X	0	X	X	0
	C7	0	X	X	X	X	0	X	0	X	X	0
General skills	d1	0	0	0	X	0	X	X	0	X	0	0
	d2	0	0	X	X	0	0	X	0	X	0	0
	d3	X	X	X	0	X	X	X	0	X	0	X
	d4	0	0	0	X	X	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: None

Forensic medicine and advance forensic medicine edited by staff members

6.2- Essential books (text books)

- Michael Barkly (2013) Recent advances in veterinary toxicology.
- Sylvia Engdahl (2011) Forensic Technology.

6.3- Recommended books

- Course notes
- Michael Barkly (2013) Recent advances in veterinary toxicology.
- Atlas of vet. Forensic medicine.

6.4- Periodicals, Web sites, . . . etc

- Environmental contamination & toxicology.
- Clinical toxicology.
- www.ekb.eg

7- Facilities required for teaching and learning

- Equipped teaching hall.
- Equipped laboratory of forensic medicine and toxicology.
- Forensic medicine and toxicology a .
- Laboratory animal research unit

Course coordinator: Prof. Dr. ELHAM ELSHEIWEY.

Head of department Prof. Dr. ELHAM ELSHEIWEY

Signature

Date 1/10/2019