

Specification for Pharmacology course 2019/2020

A-Affiliation

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

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	Pharmacology
2.	Course code	308 (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

- Providing students with information about prescription writing and compounding of some prescriptions.
- Providing students with a basic information about drugs modifying hormonal function (Endocrine Pharmacology).
- Providing students with information about drugs affecting water and electrolyte balance, metabolism and those used for growth promotion (Pharmacology of Metabolism).
- Providing students with information about drugs affecting bacteria, fungi, parasites, insects and those used for antiseptics and disinfection (Chemotherapy).
- Providing students with basic information about identification of symptoms appearing upon administration of over dose of drugs (drug toxicity) and treating such conditions with specific antidotes and other supportive drugs.
- Demonstrating for students the ideal prescriptions for treatment of selected commonly met-with cases in the veterinary field (Clinical Pharmacology)

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- Write a proper prescription on scientific basis for curing a case (Dispensing).
- a2- Dispense certain drug formulas that are not available on the drug market

(Dispensing).

a3- Mention drugs affecting hormones, metabolism and growth (Endocrine and Metabolic Pharmacology).

a4-Mention a proper chemotherapeutic drug specific for treating a disease caused by certain microorganism sensitive to the selected drug (Chemotherapy).

a5- Define the general measures taken to deal with a case of drug over dose

a6- Decide drugs of choice in a prescription for treating a diseased condition

b- Intellectual skills

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

b1- Assess the drugs which are compatible together for treating a case.

b2- Decide the best drug to which certain microorganism is sensitive.

b3- Treat drug toxicity and to take measures which help fast and complete clearance of the overdose of the drug

c- Professional and practical skills

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

c1- Write a complete prescription for a diseased case.

c2- Perform in the lab some simple pharmaceutical processes.

c3- Dispense in the lab some drug formulae that are not available in the market

d- General and transferable skills

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

d1- Searching skill.

d2- Problem solving skill.

d3-Being effective member in pharmacology teams in drug agencies, research institutes and pharmaceutical companies

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ⁸
B Intellectual skills	b ⁵
C Professional and practical skills	c ⁵
D General and transferable skills	d ^{1,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Endocrine Pharmacology	6	4
Chemotherapy	12	14
Drug toxicity	4	4
Clinical Pharmacology	4	4
Drug interaction	4	4

Total hours	30	30
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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
Endocrine Pharmacology	a1, a2, a3	b1, b2, b3	c1, c2, c3	,d1,d2,d3
Chemotherapy	a1, a2, a4	b1, b2, b3	c1, c2, c3	,d1,d2,d3
Drug toxicity	a1, a2,a5	b1, b2, b3	c1, c2, c3	d1,d2,d3
Clinical Pharmacology	a1, a2, a6	b1, b2, b3	c1, c2, c3	d1,d2,d3
Drug interaction	a1, a2,	b1, b2, b3	c1, c2, c3	d1,d2,d3

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods							assessment method					
	L	P&M	D	P	Ps	Bs	FV	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	x	x	x	0		x	0	x	x	x	0	x
	a2	x	x	x	0		x	0	x	x	x	0	x
	a3	x	x	x	0		x	0	x	x	x	0	x
	a4	x	x	x	0		x	0	x	0	x	0	x
	a5	x	x	x	0		x	0	x	0	x	0	x
	a6	x	x	x	0		x	0	x	0	x	0	x
Intellectual skills	b1	x	x	x	0	x	x	x	x	x	x	0	x
	b2	x	x	x	0	x	x	x	x	0	x	0	x
	b3	x	x	x	0	x	x	x	x	0	x	0	x
Professional and practical skills	c1	0	x	x	x		x	x	x	0	x	x	0
	c2	0	x	x	x		x	x	x	0	x	x	0
	c3	0	x	x	x		x	x	x	0	x	x	0
General skills	d1	0	x	x			x		x	0	x	0	x
	d2	x	0				x	x	x	0	x	0	x
	d3	0	0	x	x			x	x	0	x	0	0

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

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:

Pharmacology & Therapeutics for Veterinary Medical Students (2007) the Staff of Pharmacology Department, Al-Andalus Press Agency, Egypt

6.2- Essential books (text books)

- Fiona Cunningham (2010) Comparative and Veterinary Pharmacology.
- Robert Bill (2009) Medical mathematics and dosage calculations for veterinary professionals
- Nicholas H. Booth (2008) Jones veterinary pharmacology and therapeutics
- Amand. H. Rock (2007) veterinary pharmacology

6.3- Recommended books

- Course note.
- Fiona Cunningham (2010) Comparative and Veterinary Pharmacology.
- Robert Bill (2009) Medical mathematics and dosage calculations for veterinary professionals
- Nicholas H. Booth (2008) Jones veterinary pharmacology and therapeutics.

6.4- Periodicals, Web sites, . . . etc

- Pharmacology Research.
- Journal of Vet. Pharmacology and Therapeutics.
- British Journal of Pharmacology
- <http://www.fda.gov> (Food & Drug Administration web site)
- http://www.aspet.org/public/pharm_resources/default.html (Pharmacology resources)
- <http://www.merckvetmanual.com> (Veterinary encyclopedia)

7- Facilities required for teaching and learning

- Teaching hall.
- Pharmacology laboratory.
- Porcelain drug mills.
- Stocks of drugs and chemicals
- Central laboratory

Course coordinator: Prof. Dr. ASHRAF ABDEL HAKIM EL-KOMY

Head of department Prof. Dr. ASHRAF ABDEL HAKIM EL-KOMY

Signature

Date 1/10/2019