Course Specification
Academic Year (2024-2025)

1- Basic Information

University	Beni-Suef
Faculty	Veterinary Medicine
Department	Pharmacology
المقرر يتم تدريسه ضمن برنامج بكالوريوس الطب البيطرى لائحة ساعات معتمدة ٢٠٢٢	

Course Title:	Pharmacology - part II
Course Code:	PHA.323
Academic Year:	2022-2023 – Level 3, second semester.
Program Title:	Bachelor degree of Veterinary Medicine (BVM)
Responsible Department:	Department of Pharmacology
Credit hours/week:	3 hours (lecture: (2) - practical: 1(2).
Internal evaluator:	Prof Dr./ Abd. El. Naser Abd. El. Fatah , *Beni-Suef University*
External evaluator:	Prof Dr./ Hosny Awad El-Banna , *Cairo University*
Approval date:	تم اعتماد توصيف المقرر في مجلس القسم رقم ( ) بتاريخ 03/ 09/ 2019 تم اعتماد توصيف المقرر في مجلس الكلية رقم ( ) بتاريخ / / ٢٠

2- PROFESSIONAL INFORMATION:

Overall aims of the course:

This course aims to:

Provide students of the third academic year with data enable the student to be able to;

1- Set the side effect and toxicity of the drugs
2- Write correct prescription.
3- Dispense different drugs used for treating diseased case.
4- Calculate the correct doses of different drugs.
5-Choose the best suitable drugs for treating different diseases.
6-Perform different pharmaceutical drug forms necessary for treatment certain diseases.

3- INTENDED LEARNING OUTCOMES OF THE COURSE (ILOs):

a- Knowledge and understanding:

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

a1. Recognize drug affecting metabolism, chemotherapy and clinical pharmacology.
a2 Recognize drug toxicology ,fish pharmacology and hormones.

b- Intellectual skills:

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

b1. Formulate different prescriptions for treating diseases.
b2. Suggest certain drugs for treating diseased cases

b3. Differentiate the forms of drugs

c- Professional and practical skills:
By the end of this course the student should be able to:
c1. Assesse of the different chemotherapeutic agents
c2. Design a Prescription.
c3. Perform different pharmaceutical drug forms necessary for treatment certain diseases.

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. Communicate with drug companies, pharmacists and the friends in the career.
d3. Utilize computers and internet for research work.

4- Course Contents and Topics:

Week	Topics		No. of credit hours	
	Lecture	Practical	Lecture	Practical
W1	*Drugs affecting metabolism	Drug forms	2	2
W2	*Antibiotics	Metrology, Prescription writing	4	2
W3	*Sulfonamides	-	1	-
W4	*Other antimicrobials	Mercurochrome solution, Ichthyol ointment	2	4
W5	*Anthelmintic drugs	Potassium permanganate solution	2	2
W6	*Antiprotozoal drugs, Antifungal drugs	Sulpher ointment, Iodine ointment, Pessaries	3	6
W7	*Disinfectants and antiseptics	Tr. Iodine solution , Zinc oxide ointment, Zinc sulphate eye drops	2	6
W7	Midterm exam	-	-	-
W8	*Antiviral drugs	-	1	-
W9	*Ant tubercular drugs	-	1	-
W9	*Antitumor drugs	-	1	-

W10	* Clinical pharmacology	Bin iodide of mercury blister, Turpentine oil linament, Expectrontant mixture, Anti-acid mixture, Caster oil emulsion, Electuary, Bolus	**2**	**11**
W11	*Drug toxicology	Chemical and medicinal plant sampled Patent drug samples	**3**	**2**
W12	*Fish pharmacology	Chemical and medicinal plant sampled Patent drug samples	**1**	**2**
W13	*Hormones	Chemical and medicinal plant sampled Patent drug samples	**1**	**2**
	T o t a l		**26**	**39**

5-Teaching and Learning Methods:

5.1. Lectures (brain storming and discussion) in which one or more of the following facilities are used:

5.1.1.

5.2. Laboratory sessions in which one or more of the following facilities are used:

5.2.1. Tutor presentation followed by students' small group sessions.

5.3. Independent (laboratory and home assignments supervised by tutors)

5.3.1. Writing essays and assignments (computer researches and faculty library attendance).

5.3.2. Group discussion.

6- Teaching and Learning Methods for Students with Disabilities:

N.B. Students with physical disabilities are non-applicable in the faculty.

While students with learning difficulties:

-The students are encouraged to contact department staff members in their announced office hours to discuss their individual needs for learning accommodation that may affect their ability to participate in course activities or meet the course requirements.

-At end of the practical sessions, overall courses revision was done for all student groups to overcome the problem of non-attendance in any practical session.

7-Students Assessment:

7.1. Assessments methods:

Matrix alignment of assessment methods/measured ILOs:

Method	Matrix alignment of the measured ILOs/Assessments methods

	K&U	I.S	P&P.S	G.S
Midterm exam	**a1-a2**	**b1-b2**	**c1, c2, c3, c4**	**-**
Written exam	**a1-a2**	**b1-b2**	**c1, c2, c3, c4**	**-**
Practical exam	**a1-a2**	**b1, b2**	**c1, c2, c3, c4**	**d1**
Oral exam	**a1-a2**	**b1-b2**	**c1, c2, c3, c4**	**-**

7.2. Assessment schedules/semester:

Method	Week(s)
Midterm exam	At the 7th week, managed by faculty administration.
Written exam	At the 15th week, managed by faculty administration.
Practical exam	At the 14th week, managed by department administration.
Oral exam	At the 15th week, managed by department administration.

7.3. Weight of assessments:

Assessment	Degrees	Weight
Midterm exam	**20**	**20%**
Written exam.	**50**	**50%**
Practical exam.	**20**	**20%**
Oral exam.	**10**	**10%**
Total	**100**	**100%**

8- List of References:

8.1. Department notes:

8.1.1. * Notes of pharmacology (part II) by staff member.

* Note of practical pharmacology, faculty of veterinary medicine, Beni-Suef University.

8.2. Essential textbooks:

(Available in library of Faculty of Veterinary Medicine, Beni-Suef University)

*Walker, D.G.; Renwick, A.G. and Hillier, K. (2001):
Medical pharmacology and therapeutics
First Ed. University of Southampton printed in Spain

*Mehdi Borougerdi. (2002):
Pharmacokinetics: Principles and applications.
Dep. of Pharmaceuitical Science-School of pharmacy, North Easten Univ. Bostom.

8.3. Recommended textbooks: (Available online via GOOGLE search).

Available in library of Faculty of Veterinary Medicine, Beni-Suef University)

*Stockly, I.H. (1999):

Drug interactions, 5th Ed.
University of Nottingham Medical School, Nottingham, UK
*Goodman, L.S. and Gilman, A. (2001):
The pharmacological basis of therapeutics, 10th Ed.
Iowa State University Press USA
*Nicholas H. Booth and E. Mcdonald (2005):
Jones Veterinary Pharmacology and Therapeutics, 5th Ed, Pharmaceutical press publisher
*Robert L. Bill (2006):
Clinical Pharmacology and Therapeutics For The Veterinary Technician, 3rd Ed. Vet.
Physiology and pharmacology. School of Vet. Medicine. Purdue Univ. indiana
*S. Giguere. J. F. (2006):
Antimicrobial therapy in Veterinary Medicine, 4th ed.
Black well publishing
*Bertram. G. (2007):
Basic and clinical pharmacology. 10th .ed.
Dep. of cellular and molecular pharmacology. Unv. of calfornia, San Francisco.

8.4. Journals, Websites …….. etc.

8.4.1. Journals:

*Journal of Pharmaceutical Science
*Journal of Veterinary Pharmacology and Therapeutics
*Antimicrobial Agents and Chemotherapy
*British Journal of Pharmacology
*The Pharmacological Basis of Therapeutics
*Journal of Antimicrobial Chemotherapy
*Journal of Antibiotics

8.4.2. Websites

http//www.sciencedirect.com/scince
ncbi.nlm.nih.gov/entrez/query.fcgi

Course Coordinator	Head of the department
Prof. dr. / Arafa Meshref	Prof. dr. /Abeer Mohamed

MATRIX OF COURSE CONTENTS AND INTENDED LEARNING OUTCOMES (ILOS)

Course	Topics	Week	Intended learning outcomes (ILOs.)			
			K&U.S (a)	I.S (b)	P&P.S (c)	G&T.S (d)
Third Year – First Semester – PHA.323 Pharmacology (3hours/week (lect. 2 hours/week - pract. (1) 2 hours/week)	*Drug affecting metabolism	1	a1	b1, b2, b3	c1, c2, c3	d1-d3
	*Antibiotics	2,3	a1	b1, b2, b3	c1, c2, c3	
	*Sulfonamides	4	a1	b1, b2, b3	c1, c2, c3	
	*Other antimicrobials	4,5	a1	b1, b2, b3	c1, c2, c3	
	*Anthelmintic drugs	5,6	a1	b1, b2, b3	c1, c2, c3	
	*Antifungal drugs	6	a1	b1, b2, b3	c1, c2, c3	
	*Antiprotozoal drugs	7	a1	b1, b2, b3	c1, c2, c3	
	*Disinfectants and antiseptics	8	a1	b1, b2, b3	c1, c2, c3	
	*Antiviral drugs	9	a1	b1, b2, b3	c1, c2, c3	
	*Antitubercular drugs	9	a1	b1, b2, b3	c1, c2, c3	
	*Antitumor drugs	10	a1	b1, b2, b3	c1, c2, c3	
	* Clinical pharmacology	10,11	a1	b1, b2, b3	c1, c2, c3	
	*Drug toxicology	11,12	b2	b1, b2, b3	c1, c2, c3	
	*Fish pharmacology	13	b2	b1, b2, b3	c1, c2, c3	
	*hormones	13	b2	b1, b2, b3	c1, c2, c3	