Course Description Form

1. Course Name:

Clinical pathology

2. Course Code:

VEC4119

3. Semester / Year:

2023-2024

4. Description Preparation Date:

\(\frac{\x'}{2}/2024\)

5. Available Attendance Forms:

\(\frac{\x'}{2} \text{ rd stage students} \)

6. Number of Credit Hours (Total) / Number of Units (Total)

45 hr. / 2 units

7. Course administrator's name (mention all, if more than one name)

Name: assistant lec. Reyam sami hameed Name: Assisstant Lec. Almas Mohammed Ali

8. Course Objectives

Course Objectives	1- Teaching the student the concept of	
	pathological diagnoses and its general	
	principles	

- 2- Knowledge, understanding and comprehension of the scientific subject curriculum
- 3- To classify the theoretical and practical needs for the development of learning and teaching in the appropriate manner with the scientific material
- 4- Identifying pathogens that may affect animals to give the correct diagnosis of the disease state.

9. Teaching and Learning Strategies

Strategy

- 1) lectures.
- 2) Discussions during and after the lecture.3) Motivation through questions and answers.
- 4) Homework.
- 5) Preparing scientific reports.

10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1 st	٣	Collection of different samples	Introduction (terminology and concepts)	Theoretical (1 hours) + practical (2 hours)	daily test
2nd	٣	Erythrocytes count	Clinical hematology (leukocytes and erythrocytes)	Theoretical (1 hours + practical (2 hours	daily test
3rd	٣	Reticulocytes count		Theoretical (1 hour + practical (2 hours	Homework
4th	٣	Packed cell volume and Hi determination	Bone marrow examination	Theoretical (1 hours) + practical (2 hours)	daily test
5th	٣	Leukocytes parameters (TLC)	Platelets function abnormalities & diagnosis of bleeding disorders	Theoretical (1 hours) + practical (2 hours)	daily test
6th	٣	Leukocytes parameters (DLC)	Clinical biochemistry, Basic principles, total portion,	Theoretical (1 hours) + practical (2 hours)	Homework

7th	٣	ESR determination	review	Theoretical (1 hour + practical (2 hours	daily test
8th		Mid-term exam.			Theoretical (and practical (10) exams + reports (5)
9th	٣	Platelets function abnormalities	Ketones, urea, enzymology, mineral levels.	Theoretical (1 hours) + practical (2 hours)	
10 th			Metabolic profile testi	Theoretical (1 hours) + practical (2 hours)	daily test
11th	٣	Bleeding and clotting time	and S.1. unit.	Theoretical (1 hour	Homowork
11 th	٣	Blood smear examination 2	Liver function test	+ practical (2 hours	Homework
12th	٣	Lymph smear examination	Kidney function test	Theoretical (1 hour + practical (2 hours	-
13th	٣	Clinical biochemistry, Tot portion, Ketones and urea.	_	Theoretical (1 hour + practical (2 hours	
14th	3	Enzymology and mineral levels.	Disturbances of adrena pituitary, thyroid and parathyroid glands	Theoretical (1 hour + practical (2 hours	
15th	3	Urine examination (physic chemical and microscopic)		Theoretical (1 hour + practical (2 hours	

11. Course Evaluation

- 1. Semester and final theory exams by 60%
- 2. Semester and final practical exams at a rate of 40%, from it Daily exams (cues) and Extracurricular activities (reports, making wall posters) 5%

12. Learning and Teaching Resources

12. Eddining that redoming recodines				
Required textbooks (curricular books, if any)	non			
Main references (sources)	1-Fundamentals of veterinary clinical pathology ,Steven L.Stokham and Michael A.Scott ,second edition . 2-Veterinary clinical diagnosis by laboratory methods , R.S. Brar ,H.S. Sandhu and Avtar Singh . 3-Clinical pathology and laboratory techniques for veterinary technicians, ANNE M.BARGER and AMY L. MACNEILL . 4-Pathology and parasitology for veterinary technicians , Leland S. Shapiro ,second edition . 5-Color atlas of veterinary pathology , J.E.van Dijk ,E.Gruys and J.M.V.M.Mouwen , second edition . 6-Manual of small animal clinical pathology , Malcolm Davidson ,Roderick Else and John Lumsden .			
Recommended books and references (scientific	non			
journals, reports)				
Electronic References, Websites	Wikipedia			