

بسم الله الرحمن الرحيم
جامعة السودان للعلوم والتكنولوجيا
كلية الطب البيطري
لجنة الاعتماد والتقويم

Department: - Department of medicine

***- Course Number (.....)**

***- Semester (9)**

***- Instructor**

Name: Imad Mohamedtahir Fadlalla

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Office Hours:

1) Course name:

Laboratory Diagnosis

2) Course objectives

- 1- Chemical bases of the disease
- 2- Causative agent
- 3- Aid in the final diagnosis of the disease
- 4- Disease development
- 5- Ensure perfect disease treatments.

Prerequisites:

- 1- Biochemistry
- 2- Physiology
- 3- Microbiology
- 4- Pathology
- 5- Medicine1
- 6- Applied anatomy
- 7- Radiographic

4) Course contents

A) Theory

No	Title	Hours
	Introduction: Definitions, course objectives and contents Liver function tests: Liver pigments, bile, bilirubin, Kidney function tests: Enzymes: Hormones: Minerals: Cancer: Microbiology Virology Parasitology Clinical haematology Medicine Case Studies	
Total		30

B) Practical

No	Title	Hours
	Introduction: Definitions, course objectives and contents	2
	Biological specimens: Types, classification, uses, collection, preservation, and normal and abnormal values.	4
	Clinical Biochemistry: Clinical interpretation of colorimetric, flame and other biochemical values, normal and abnormal values.	10
	Clinical physiology Clinical interpretation of Hb, RBCs, WBCs count, PCV, MCV, normal and abnormal values.	7
	Clinical microbiology: Clinical interpretation of serology, bacterial count, colony count, isolation, identification, and antimicrobial resistance test.	8
	Case study: Correlation of antimortem, case history, clinical signs and laboratory findings to reach the final diagnosis.	14
Total		45

Credit hours:- 3

1. Practical: 3

2. Theory: 2

3. Contact hours: 5

5/ Course learning outcome

- 1- Perform perfect disease diagnosis.
- 2- Perform perfect follow up of the disease development
- 3- Perform perfect disease treatment

6/ Student audients

5th class students of veterinary medicine

7/ Evaluation system

- **Seminars**

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- **Assignments & reports**

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- **Progress exams**

- **Lab Evaluation**

- **Final exam**

(8) Teaching methods:

9/ Grading scheme:

10/ Attendance:

11/ References:

Signature:

Date: