



Jordan University of Science and Technology
Faculty of Veterinary Medicine
Veterinary Medicine And Surgery Department

VM553 Vet Clinical Chemistry And Cytology

First Semester 2021-2022

Course Catalog

2 Credit Hours. This course will focus on understanding the diagnostic and prognostic value of laboratory tests as aids in the medical management of clinical cases. Interpretation of alterations in cytological samples from various organ systems, and chemical data derived from blood , serum or other body fluids . Extensive use is made of clinical cases to emphasize correct interpretation of reports.

Text Book

Title	Veterinary Laboratory Medicine: Clinical Pathology
Author(s)	Duncan, Prasse & Mahaffey
Edition	10th Edition
Short Name	chemistry
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
cytology	https://online.fliphtml5.com/nxmz/xrub/#p=210	rose	1st Edition	

Instructor

Name	Prof. Raida Al-Rukibat
Office Location	G1-L3
Office Hours	Sun : 10:30 - 11:30 Sun : 14:30 - 15:30 Mon : 10:00 - 11:30 Tue : 10:00 - 11:30 Thu : 10:00 - 11:30
Email	ralrukib@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Tue : 14:30 - 15:30 Room: قاعة ابن رشد

Tentative List of Topics Covered		
Weeks	Topic	References
	Choose appropriate tests for dogs, cats, horses and ruminant to evaluate the hepatobiliary system, urinary system, digestive system, water-electrolytes & acid base status, muscle and endocrine organs.	
	2. Identify and interpret significant abnormal values by localizing alterations to the correct organ (s)/ tissue(s) and describing pathologic mechanism leading to such biochemistry changes.	
	3.Suggest appropriate disease differentials for any identified abnormalities and make recommendations for subsequent testing	
	Identify Specific Inflammatory cells & differentiate between epithelial and mesenchymal cell populations, as obtained from normal animals.	
	Categorize inflammatory processes based on the types and morphology of cells involved, explain the pathophysiologic mechanisms for the process, suggest etiologies that are typically associated with such changes, identify the presence of bacterial organism and distinguished between the major systemic fungal organisms.	
	Identify and distinguished between round or discrete cell neoplasm	
	Identify cytomorphologic criteria of malignancy	

Relationship to Program Student Outcomes (Out of 100%)									
1	2	3	4	5	6	7	8	9	10

Policy	
1st exam cytology section	6th week out of 30
2nd exam .renal system and proteins	out of 20
final exam	out of 50 Announced by registration office

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