Course Specifications

General Information

Course name	Body Fluids & Urinalysis
Course number	AMSL4218
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	1
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - The aim of this course is to provide students with concise, comperhensive and carefully structured instructions in the analysis of nonblood body fluids.
2 - It is devoted to overall lab safety and the precautions relating to urine and body fluid analysis.
3 - Address quality assurance and management in the urinalysis lab
4 - View preanalytical, analytical, and postanalytical factors.
5 - Methods for continous quality improvement.
6 - Also this course deals with lab testing
7 - Semen analysis procedures
8 - CSF procedures
9 - Serous fluids

Intended Learning Outcomes

Knowledge and Understanding	* Apply principles of safety, quality assurance and quality control; evaluate specimen acceptability; explain principles of each test included in a routine urinalysis; describe the composition, formation and function of selected body fluids; explain the anatomy and functions of the renal system; and evaluate and correlate laboratory results with patient condition(s).

Course Contents

1 - Introduction to Urinalysis and body fluids
2 - Urine formation, composition, volume, color and specimen turbidity
3 - Urine specimen types and handling
4 - Physical examination of urine
5 - Chemical examination of urine
6 - Microscopic examination of urine
7 - Cerebrospinal fluid examination
8 - Semen analysis
9 - Synovial fluid analysis
10 - Serous fluid analysis

Teaching and Learning Methods

1 - Laboratory sessions
2 - Lecture- one hour weekly
3 - Discussions
4 - Case studies

Students Assessment

Assessment Method	TIME	MARKS
Practical Part		30%
MIDTERM THEORITICAL EXAM	AFTER 2 months	20%
Final Exam	End of Semester	50%

Books and References

Course note	Lecture Powerpoints outlines
	Laboratory Exercises
Essential books	Textbook: Mundt, L.A., and Shanahan, K.S. (2011). Textbook of Urinalysis and Body Fluids, 2nd ed. Wolters Kluwer / Lippincott Williams and Wilkins. ISBN10: 1-5825-5875-2 ISBN 13: 978-1-5825-5875-2