Course Specifications

General Information

Course name	Practical Biochemistry
Course number	AMSL2109
Faculty	
Department	
Course type	UNIV Needs
Course level	2
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - The purpose of this course is to develop a working knowledge of the principles and procedures of biochemistry.

Intended Learning Outcomes

Knowledge and Understanding

* Apply principles of safety, quality assurance and quality control in biochemistry laboratory.
* Evaluate specimen acceptability.
* Identify and efficiently use the glassware and equipment used in the lab.
* Explain the principles of and perform biochemical tests.
* Evaluate and correlate test results with associated diseases or conditions

Course Contents

1 - Week No1: Introduction, safety rules and general lab instructions
2 - Week No2: Glassware and equipment used in biochemistry laboratory
3 - Week No3: Blood components and types of anticoagulants
4 - Week No4: Amino acid and protein
5 - Week No5: Albumin
6 - Week No6: Carbohydrates
7 - Week No7: Glucose
8 - Week No8: Cholesterol
9 - Week No9: Triglyceride
10 - Week No10: Calcium
11 - Week No11: Sodium and potassium

Teaching and Learning Methods

1 - Practical sessions

Students Assessment

Assessment Method	TIME	MARKS
Practical Attendance		10%
Quiz		10%
Reports		10%
Midterm Exam		20%
Final Exam		50%

Books and References

Course note	Introduction to practical biochemistry, by Gy?rgy Hegyi, J?zsef Kardos and Mih?ly Kov?cs, 2013, E?tv?s Lor?nd University Practical Manual in Biochemistry and Clinical Biochemistry, by Victor J. Temple. 2013, University of Papua New Guinea. ISBN: 978-9980-84-919-9