

Biochemistry

Course Description:

The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and alterations in understand the biochemistry in diseases for practice in hospitals.

Course Content:

Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Structure and functions of Cell membrane	1	2
2	Metabolism of Carbohydrate	2-4	6
3	Metabolism of Lipids	5-7	6
4	Midterm exam	8	2
5	Metabolism of Amino acids and Proteins	9-12	8
6	Composition of Vitamins and minerals	13-14	4
7	Final exam	1	2
Number of Weeks /and Units Per Semester		15	30

B– Practical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Spectroscopy	1	2
2	Methods of analysis, definition of blank, standard, absorption and transmission	2	2
3	Sample types, collection and separation	3	2
4	Blood glucose test	4	2
5	Blood glucose test	5	2
6	Glycosylated HbA1C test	6	2
7	Lipid profile test	7	2
8	Lipid profile test	8	2

9	Lipid profile test	9	2
10	Total protein test	10	2
11	Albumin test	11	2
12	Globulin test	12	2
13	Uric acid test	13	2
Number of Weeks /and Units Per Semester		13	26

Teaching strategies of the course:

Lecture - Discussion

Student assignments

Practical session

Schedule of Assessment Tasks for Students during the Semester: Theoretical part

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance and Activities	15th week	5	5%	a1, b1,d1
2	Student assignment	5th and 12th week	5	5%	b1
3	Mid-term exam	7th or 8th week	10	10%	a1, b1
4	Final exam	16th-17th week	40	40 %	a1, b1,d1
Total Theory Weight			60	60%	

Practical part

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance and Attitude	14 th week	5	5%	c1

2	Semester work	1 st and 14 th week	10	10%	c1
3	Final exam (theory or oral)	15 th week	5	5%	c1
4	Final exam (practical)	16 th -17 th week	20	20%	c1
	Total Practical Weight		40	40%	