Course Description Form

1. Course Name:

Biochemistry

2. Course Code:

102

3. Semester / Year:

First years _ First semester -1

4. Description Preparation Date:

13-2-2024

5. Available Attendance Forms:

Recording the student's attendance in theoretical lectures

- 6. Number of Credit Hours (Total) / Number of Units (Total)
- (4) hours per week for the theoretical subject for a period of 15 weeks (total 60 hours)
 - 7. Course administrator's name (mention all, if more than one name)

Name: Lecturer MSC · Shahad Abbass

8. Course Description

♣ The course is designed to introduce students to the fundamental concepts compound of Biochemistry the student at both structure and role of abnormal carbohydrates, lipids, amino acids, proteins and enzmes.

9. Course Objectives

- Understand the clinical distinguish between carbohydrates, lipids, amino acids, proteins and enzmes
- ightharpoonup Understand the role of hormones and the metabolic reactios in the body .

10.Chemistry of Carbohydrates

- ♣ Biomedical importance of carbohydrate
- Sugar berivatives of biologic importance
- Monosaccharides
- Disaccharides
- Polysaccharides
- Digestive of carbohydrates
- Absorption of carbohydrates

Theoretical = 2 h			
Date of Class	Unit to be Covered and/or Activity		
Week 1	Introduction of Chemistry of carbohydrates Biomedical importance of carbohydrate		
	Sugar berivatives of biologic importance		
	 Monosaccharides 		
	• Disaccharides		
	 Polysaccharides 		
	Digestive of carbohydrates		
	Absorption of carbohydrates		
Week 2	Chemistry of lipids		
	 Functions and importance of lipids 		
	Classification of lipids		
	 Identification characterization of fats in compound lipids 		
Week3	Bile acid and bile salt		
Week 4	Functions of proteins Amino acids		

	Classification Functions of amino acids
Week5	Digestion and absorption of proteins Dynaimic equilibrium
Week 6	Metabolism of amino acid Blood proteins

Week 7	Writing review of literature	
Week 8	Bilirubin	
	• Types of bilirubin	
	• Jaundice	
	Classification of jaundice	
Week 9	Enzymes	
	General properties of enzymes	
	Chemical composition of enzymes	
	Classification of enzymes	
	co_enzymesEnzymes specificity	
Week 9	urine	
	Normal characteristic of urine	
	Constituents of normal urine	
	Urine collection	
Week 10	Discussion the finding of the study.	

.Course Evaluation	
First midterm theory exam	20%
Second midterm theory exam1	20 %
Final Exam	60%
Total	100 %