Course Description Form

1. Course Name:
Biochemistry
2. Course Code:
3. Semester / Year:
1&2/ 2023−2024
4. Description Preparation Date:
1\9\2024
5. Available Attendance Forms:
Traditional class attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
150 hrs(3 theoretical+ 2 practical)/8
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Hayder Hussein Abed Email: Hayderhussein862@mu.edu.iq
8. Course Objectives

Course Objectives	• Teaching the fundamental chemical princip including the structure and molecular functior bio-compounds. • Explaining the process of digestion and absorpt of biomolecules • Clarifying the importance of enzymes • Chemical Reactions in the Body and Their Imp on Health and Diseases

9. Teaching and Learning Strategies	
Strategy	1- Laboratory Experiments to Apply Theoretical Concepts 2- Encouraging students to actively participate in discussions 3- Utilizing illustrations, graphs, and simulations to clarify chemical concepts 4- Using multiple books, scientific references, and online resources 5- Stimulating discussions on the medical applications of biochemistry

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3	5 per week	Introduction to biochei Carbohydrate (structu Protein structure	Introduction Carbohydrate (structur Protein		

4		Lipid structure	Lipid		
5		Nucleic acids	Nucleic acid		
6		CHO. Metabolism	Glycogen metabolism		
7		CHO metabolism	Glycolysis		
8		CHO Metabolism	Krebs cycle		
9		CHO Metabolism	Energy and Oxidation		
10		Enzymes	Enzymes		
11		Vitamins	Lipid soluble Vits.		
12		Vitamins	Water soluble vits		
13		Trace Elements	Fe, Mg, Ca, Na, K		
14		Discussion			
15		Exam			

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

1- 10% attendance
2- 30% practical lab
3- 30% med exam
4- 20% quizzes
5- %10 orally exam and discussion

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Harper's Illustrated Biochemistry, Twenty-Sixth Edition by Robert K. Murray et al. 2003
Main references (sources)	Lippincott , Illustrated Reviev Biochemistry, Seventh Editi Williams & Wilkins , 2017
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	