

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 207 GENERAL AND SYSTEMATIC BIOCHEMISTRY

Course Name:	GENERAL AND SYSTEMATIC BIOCHEMISTRY		
Code MA 207	Regular Semester 3	Theoretical 2	
Name of Lecturer(s)- Academic Title:	Rondik Ahmed - BSc. PhD		
Teaching Assistant:	Mhammed Fattih		
Course Language:	English		
Course Type:	Main		
Office Hours	Thursday 8:00-17:00		
Contact Email:	rundk.hwaiz@gmail.com Tel:07504529008		
Teacher's academic profile:	BSc in Chemistry College of Science/University of Salahaddin. PhD in Medical Biochemistry Lund University/ Collage of Health Sciences. Lecturer at Medical analysis Departments/Tishk International		
Course Objectives:	The course aims to provide an advanced understanding of the core principles and topics of Biochemistry specialized knowledge and understanding of selected aspects by means of a lecture. •Understanding enzymes, hormones and vitamins. •Know how importance, properties, clinical correlation of each of carbohydrates and vitamins.		
Course Description (Course overview):	Biochemistry is a branch of chemistry which consists of carbohydrates, lipids, proteins, nucleic acids, general outcomes, after completion of this course students will be able to understand the General information about the oxidation (anabolism and catabolism of foods).		

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	introduction to biochemistry
2	2	10-14/10/2021	amino acids
3	2	17-21/10/2021	proteins
4	2	24-28/10/2021	simple carbohydrates
5	2	31/10-4/11/2021	complex carbohydrates
6	2	7-11/11/2021	metabolism of carbohydrates
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	introduction to lipids
9	2	28/11-2/12/2021	types and function of lipids
10	2	5-9/12/2021	types and function of lipids 2
11	2	12-16/12/2021	metabolism of lipids
12	2	19-23/12/2021	nucleic acids
13	2	26-30/12/2021	Enzymes
14	2	2-5/1/2022	Vitamins
15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

- 1 proteins
- 2 carbohydrates
- 3 lipids
- 4 nucleic acids
- 5 enzymes

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES
(Blank : no contribution, I: Introduction, P: Proficient, A: Advanced)

Program Learning Outcomes

- 1 Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states
- 2 apply principles of evidence-based medicine to determine clinical diagnoses.
- 3 apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology
- 4 formulate and implement acceptable treatment modalities to various disease states.
- 5 use technology effectively in the delivery of instruction, assessment, and professional development.
- 6 exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and disseminating information
- 7 exhibit organizational skills, accountability, and ethical behavior.
- 8 apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and maintaining laboratory environment.
- 9 apply problem-solving and decision-making skills.
- 10 apply and promote health policies and regulatory standards in the field career.
- 11 develop research in the field of medical analysis using qualitative and quantitative methods.

Prerequisites (Course Reading List and References):	•Chemistry for the Health Sciences by George I sack him and Dennis D. Lehman 8th edition. • Harper Lippincott Illustrated Reviews: Biochemistry by Richard A. Harvey
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Student's obligation (Special Requirements):	•The student is expected to attend all classes and lab. Sessions. •Repeated tardiness and leaving lab equivalent in excess of 5%, under which the student gets an initial warning. •Absence of the student e reported to the dean office. •The absence in excess of 10% is defined as unsatisfactory progress and is a set-up for failure
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Course Book/Textbook:	•Chemistry for the Health Sciences by George I sack him and Dennis D. Lehman 8th edition. • Harper Illustrated Reviews: Biochemistry by Richard A. Harvey, Pamela C., and Denise R. Ferrier. 4th edition
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Other Course Materials/References:	online resources, papers, researches, website informations
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Teaching Methods (Forms of Teaching):	Lectures, Presentation, Assignments, , ,
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COURSE EVALUATION CRITERIA

Method

- Quiz
- Midterm Exam(s)
- Lab/Practical Exam(s)
- Final Exam

Total

Examinations: Essay Questions, True-False, Multiple Choices, Short Answers, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities

- Theoretical Hours
- Practical Hours
- Final Exam
- Quiz

Midterm Exam(s)

Lab/Practical Exam(s)

Total Workload

ECTS Credit (Total workload/25)

Peer review

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean