





Course Specification

— (Bachelor)

Course Title: GENERAL BIOCHEMISTRY

Course Code: HLT 201

Program: Bachelor Program

Department: General Courses

College: Nursing and Health sciences

Institution: Jazan University

Version: Y.Yo

Last Revision Date: 19/08/2024



Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Students Assessment Activities	5
E. Learning Resources and Facilities	6
F. Assessment of Course Quality	6
G. Specification Approval	7





Λ	Conoral	lini	formation	about	tha	COLLECO
А.	General		iormation	about	me	course.

1. Co	1. Course Identification					
1. 0	Credit hours: (2	2)				
2. 0	Course type					
A.	□University	□ College	□Department	□Track	□Others	
В.	⊠ Required		□Electi			
3. L	.evel/year at w	hich this course	e is offered: (5 th Le	evels / 2 nd Ye	ear)	
4. (Course general	Description:				
	Y. NomenclaturesY. Study of function	of enzymes and its fu ons of minerals and v hormones and its fur).	
5. F	5. Pre-requirements for this course (if any): None					
6. 0	Co-requisites fo	or this course (if	_{any)} : None			
7 (Course Main Ol	hioctivo(s):				

7. Course Main Objective(s):

- 1. Define macromolecule types and functions.
- Y. Understand the macromolecules structures.
- **r**. List the actions of enzymes and factors affecting them.
- 4. Recall the main function and deficiency syndromes of vitamins and minerals.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100
2	E-learning		
3	HybridTraditional classroomE-learning		





No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
١.	Lectures	30
۲.	Laboratory/Studio	
٣.	Field	
٤.	Tutorial	
٥.	Others (specify)	
Total		30

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes			Assessment Methods
1.0	Knowledge and under	standing		
1.1	Recall the theoretical knowledge related to basic biochemistry	K1	Classroom lectures. Group discussions tutorial	Multiple choice questions, matching, filling the blanks, short questions
1.2	Describe the diseases due to macromolecules, vitamins minerals, enzyme, and hormone.	K1	Classroom lectures. Group discussions tutorial	Multiple choice questions, matching
1.3	List the name and functions of vitamins, minerals, and hormones	К3	Classroom lectures. Group discussions tutorial	Multiple choice questions, matching, filling the blanks, short questions
2.0	Skills			
2.1	Demonstrate the comparison between different macromolecules and	S1	Classroom lectures, Group discussion tutorial	Tables of comparisons Assignments & HomeWorks



Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	their main biochemical functions			
2.2				
•••				
3.0	Values, autonomy, and	d responsibility		
3.1	Enhance responsibility towards the goals and objective of college and university	V1	Group discussions Small group work	Individual observation by continuous assessment sheet
3.2				
•••				

C. Course Content

No	List of Topics	Contact Hours
١.	Introduction to biochemistry	2
۲.	Cellular organelles	2
3.	Acid base balance / Buffers	2
4.	Carbohydrates structure and function	4
5.	Amino Acids & Proteins structure and function	4
6.	Introduction to Enzymes	4
7.	Lipids structure and function	4
8.	Nucleic acids structure and function	2
9.	Introduction to vitamins	2
10.	Introduction to hormones	2
11.	Introduction to minerals	1
12.	Introduction to metabolism	1
	Total	30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
١.	Quiz(Short questions)	6th	5%
۲.	Mid-term theory exam	8th	30%
٣.	Presentation	13th	10%
4.	Final theory exam	15th	50%





No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
5.	Attendance	All lectures weeks	5%

^{*}Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Harpers Biochemistry. R.K Murray. 1996 Essentials of Biochemistry for Medical Students Leininger Principles of Biochemistry Lippincott's Illustrated Reviews of Biochemistry
Supportive References	
Electronic Materials	Saudi Digital Library (SDL)
Other Learning Materials	Blackboard software

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms
Technology equipment (projector, smart board, software)	Data show, Smart Screen, Blackboard software
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Direct
Effectiveness of Students assessment	Faculty	Indirect
Quality of learning resources	Program Leaders	Indirect
The extent to which CLOs have been achieved		
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)



G. Specification Approva	al entre de la companya de la compa
COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

