

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Biochemistry 1
Course number	PHCH2207
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - This course will focus on the structures, functions and interactions of the biomolecules. The objective is to discover the importance of these molecules in biochemical processes critical for sustaining life.

Intended Learning Outcomes

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| Knowledge and Understanding | * To develop the knowledge and understanding of the biomolecules functions related to their structure |
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Course Contents

- 1 - Enzymes structures, types, catalysis, inhibition, kinetics and functions
- 2 - Carbohydrates structures, types and functions
- 3 - Lipids structures, types and functions
- 4 - Vitamins structures, types and functions
- 5 - Nucleic acids structures, types and functions
- 6 - Amino acids and proteins structures, types and functions

Teaching and Learning Methods

- 1 - Lectures, Presentations, Discussion, Computer 3D softwares and Reading

Teaching and Learning Methods for the Disabled Students

- 1 - All possible visual and listening procedures will be performed

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm	6th week	40
Final	Final	50
Research	8th week	10

Books and References

Essential books	Lipincott and Lininger
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Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Amino acids and proteins structures, types and functions	1-4	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			
Enzymes structures, types, catalysis, inhibition, kinetics and functions	5-6	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			
Vitamins structures, types and functions	7	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			
Carbohydrates structures, types and functions	8-11	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			
Lipids structures, types and functions	12-13	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			
Nucleic acids structures, types and functions	14-15	Lectures, Presentations, Discussion, Computer 3D softwares and Reading			