Republic of Iraq
Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation International Accreditation Dept.

Academic Program Specification Form

For The Academic Colleges and Institutes

University: University of Basra
College : College of Medicine
Number Of Departments In The College: 11
Date Of Form Completion : 10/5/2022

Dean 's Name
Date : / /
Signature

Dean 's Assistant For Scientific Affairs
Date : / /
Signature

The College Quality Assurance And University Performance Manager
Date : 15 / 5 / 2022
Signature

Quality Assurance And University Performance Manager Date : / /
Signature

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TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	University of Basra
2. University Department/Centre	Department of Chemistry and Biochemistry
3. Program Title	
4. Title of Final Award	M.B.Ch.B
5. Modes of Attendance offered	Annual
6. Accreditation	
7. Other external influences	
8. Date of production/revision of this specification	10/5/2022

9. Aims of the Program

The branch seeks to be known and distinguished in the field of biochemistry and clinical chemistry in Basra in particular and Iraq in general, by explaining and teaching these subjects to students of medical colleges and other supporting colleges, and preparing qualified graduates professionally and academically to carry out advanced laboratory and diagnostic work in health institutions, as well as educational tasks in academic institutions.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals :

A1. Training students on how to identify organic and inorganic chemical compounds with special focusing on their clinical applications.

A2. Providing the students with sufficient knowledge that enable them to understand the biological interactions in the human body at the molecular level.

A3. Practical applications of metabolic processes human body.

A4. Description of diseases and clinical cases resulting from disorders of metabolic processes in the human body.

A5. Description of various biochemical methods used in diagnosing some diseases.

B. The skills goals special to the programme .

B1. Identifying the biochemical tests that it are necessary to be applied to identify various pathological conditions in order to reach an accurate clinical diagnosis.

B2. Teaching medical chemistry, biochemistry and clinical chemistry to undergraduate students of colleges of medicine,pharmacy and dentistry within university of Basra.

B3. Teaching biochemistry and clinical chemistry to postgraduate students in college of medicine in addition to students of the Iraqi Board of Medical Specialties.

Teaching and Learning Methods

1. Theoretical Lectures
2. Practical Lessons
3. Small Groups teaching
4. Online Lectures

Assessment methods

1. Daily assessment
2. Formative examinations
3. Summative Examination
4. Mid-year and Final Examinations

C. Affective and value goals:

C1. Emphasis on the values of ethical aspects of the doctor- patient relationship

C2 - To highlight the human aspects of the medical profession in the various medical specialties.

Teaching and Learning Methods
1. Theoretical Lectures 2. Practical Lessons
Assessment methods
1. Daily assessment 2. Formative examinations 3. Summative Examination 4. Mid-year and Final Examinations

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Identifying the biochemical tests that it are necessary to be applied to identify various pathological conditions in order to reach an accurate clinical diagnosis.

D2. Recognizing the biochemical tests that it are necessary to be applied in various emergency situations.

D3. To highlight the importance of the accuracy of the results of laboratory analyzes.

Teaching and Learning Methods

1. Theoretical Lectures
2. Practical Lessons
3. Small Groups teaching
4. Online Lectures

Assessment Methods

1. Daily assessment
2. Formative examinations
3. Summative Examination
4. Mid-year and Final Examinations

11. Program Structure					12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating		
1st Year			Theoretical	Practical	Bachelor Degree Requires (x) credits
	1.	Medical Chemistry	30	30	
	1.A	Inorganic Chemistry	7	9 (normal inorganic urinary constituents)	
		• Radioioactivity and medical uses of radioactive isotopes	2	-	

		• Ions in living system and: their importance	2	-	
		• Air pollution. • Aerosole • Smoke. • Hydrocarbons pollution. • Pollution due to hospitals and industries • **Physiological effects of chemical materials on living system.** • Prevention and cure of air pollution.	3	-	
	1.B	**Analytical Chemistry**	8	12 (titration)	
		• Solutions and methods of expressing concentrations	2	-	
		• pH,acids, bases and salt of medical interests	2	-	
		• Buffers and buffer systems of physiological importance	2	-	
		• Colloidal Chemistry and biological systems, Dialysis and living systems.	2	-	
	1.C	**Organic Chemistry**	15	9 (normal organic urinary constituents)	
		• Alkanes, alkenes and alkynes	3	-	

		• Aromatic and cyclic hydrocarbons	3	-	
		• Alcohols	3	-	
		• Aldehydes and Ketones	3	-	
		• Carboxylic Acids	2	-	
	2	Biochemistry	30	30	
	2.A.	Carbohydrate Chemistry	5	10	
	2.B	Protein chemistry	5	10	
	2.C	Lipid Chemistry	5	-	
	2.D	Nucleic Acids Chemistry	3	-	
	2.E	Enzyme Chemistry	6	10	
	2.F.	Biological Membranes Chemistry	4	-	
	2.G	Muscle Chemistry	2	-	
2nd Year		Biochemistry	90	60	
	1.	1st Coarse	45	30	
		• Vitamins	7	-	
		• Diagnostic enzymology	4	12	
		• Carbohydrate Metabolism	12	6	
		• Diabetes Mellitus	3	6	
		• Nutrition	5	3	
		• Plasma Proteins	4	3	
		• Amino acid metabolism	6		

		• Hemoglobin Metabolism	4	-	
	2.	2nd Coarse	45	30	
		• Hormones	10	6	
		• Lipid Metabolism	11	3	
		• Nucleotides Metabolism	3	3	
		• Acid base balance	2	-	
		• Liver Function Tests	4	6	
		• Renal Function Tests	3	9	
		• Antioxidants	2	-	
		• Xenobiotics	2	-	
		• Cancer Chemistry	4	-	
		• Mineral Metabolism	4	3	

13. Personal Development Planning

The faculty members of the department contribute in the research and advisory fields to other scientific branches in the College of Medicine and other colleges of the university, and also to the health institutions in Basra governorate with regard to the field of clinical biochemistry and laboratory tests.

14. Admission criteria .

A. Central admission : for undergraduate studies
B. Direct application for postgraduate studies - according to the Average and Competitive examination.

15. Key sources of information about the programme

A- Textbooks
1-Medical Chemistry : Chemical Basis of Life
2- Biochemistry : Lippincott's Illustrated Reviews: Biochemistry
3- Laboratory manual of Practical Biochemistry
B- Researches and published studies on approved Journals and Scientific Web sites.

Curriculum Skills Map																			
please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed																			
				Programme Learning Outcomes															
Year / Level	Course Code	Course Title	Core (C) Title Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
				A1	**A2**	**A3**	**A4**	**B1**	**B2**	**B3**	**B4**	**C1**	**C2**	**C3**	**C4**	**D1**	**D2**	**D3**	**D4**
1st Year		Medical Chemistry		yes	yes	yes	yes	yes	yes	yes		yes	yes			yes	yes	yes	
		Biochemistry		yes	yes	yes	yes	yes	yes	yes		yes	yes			yes	yes	yes	
2nd Year		Biochemistry		yes	yes	yes	yes	yes	yes	yes		yes	yes			yes	yes	yes	
Post-graduate		Clinical Biochemistry		yes	yes	yes	yes	yes	yes	yes		yes	yes			yes	yes	yes	