

مشخصات دوره برنامه آموزشی

Course specifications:

Course name: Bachelor of Science in Clinical Biochemistry

Course length and structure: The length of the course and its structure are in accordance with the curriculum regulations of the Disciplinary Leadership Department approved by the High Council for Planning.

Total number of subjects:

Unit type	Number of units
Mandatory Units(core)	18
NonMandatory Units(non core)	6
Thesis units	8
Total	32

Student is also obliged With the recognition of the Department of Education and the approval of the Graduate Council of the University All or a number of Defective or compensatory subjects (table A).

Table A: Table of Defective or compensatory subjects in the curriculum of a M.A. course in Clinical Biochemistry

Subject code	Name of subjects	Number of units	Subject period hours			Prerequisite
			theoretical	practical	total	
1.	General physiology	2	34	-	34	-
2.	General biochemistry	6	85	34	119	-
3.	General immunology	2	34	-	34	-
4.	Medical information systems	1	9	17	26	-
Total		11				

Student is also obliged With the recognition of the Department of Education and the approval of the Graduate Council of the University All or a number of Defective or compensatory subjects (table A).It is imperative to pass this subjects on all students as a deficiency or compensatory subjects.

Table B: Mandatory Units(core) in the curriculum of a M.A. course in Clinical Biochemistry

Subject code	Name of subjects	Number of units	Subject period hours			Prerequisite
			Theoretical	Practical	Total	
5.	Laboratory methods recognition and working with devices	2	17	34	51	02
6.	Biochemistry and molecular diagnosis	2	34	-	34	02
7.	Enzymology	2	34	-	34	02
8.	Triple substance metabolism and disorders	2	34	-	34	02
9.	Biochemical hormones and tumor markers	2	34	-	34	02
10.	Advanced histology biochemistry	2	34	-	34	02,03
11.	Clinical Biochemistry	3	51	-	51	02,05
12.	seminar	1	17	-	17	-
13.	Hospital Internship	2	-	102	102	All theoretical and practical subjects
14.	thesis	8	-	-	-	-
Total		26				

Table C: Mandatory Units(Non-core) in the curriculum of a M.A. course in Clinical Biochemistry

Subject code	Name of subjects	Number of units	Subject period hours			prerequisite
			theoretical	practical	total	
1.	Immunochemistry	2	34	-	34	02,03,05
2.	hematology	2	34	-	34	-
3.	Research Methodology	2	34	-	34	-
4.	Nutrition Biochemistry	2	34	-	34	02
5.	Cytochemistry	2	34	-	34	02,05
6.	Membrane Biochemistry and Transmission	2	34	-	34	01,05
7.	Molecular mechanism of diseases	2	34	-	34	02
8.	Bioinformatics	2	17	34	51	02
9.	Applied Statistics	2	34	-	34	-
total		18				

The student should pass 6 units of the mentioned courses (Table C) in accordance with the subject matter of the thesis with the approval of the supervisor and the approval of the university's graduate council.