



## Curriculum for the Department of Medical Biochemical Analysis (Bologna Process)

### FIRST YEAR

1 <sup>st</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54001	General Chemistry	2	3	-	-	-	5.00	3	C
2	CUE54002	Biomolecules	3	-	-	-	-	5.00	3	C
3	CUE32002	Cell Biology	2	3	-	-	-	5.00	3	S
4	CUE61001	General English	2	-	6	-	-	5.00	5	B
5	CUE31001	Computer Skills	-	4	-	-	-	5.00	2	B
6	CUE82001	Academic Debate	3	-	-	-	-	5.00	3	B
<b>TOTAL</b>			<b>12</b>	<b>10</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>19</b>	

2 <sup>nd</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54011	Inorganic Chemistry	2	3	-	-	-	5.00	3	C
2	CUE51012	Human Anatomy	2	3	-	-	-	4.00	3	S
3	CUE32012	Biophysics	2	3	-	-	-	4.00	3	S
4	CUE54012	Medical Terminology	2	-	-	-	-	2.00	2	S
5	CUE61002	Academic English	2	-	6	-	-	5.00	5	B
6	CUE31002	Academic Computing	-	4	-	-	-	5.00	2	B
7	CUE66001	Kurdistan Studies	3	-	-	-	-	5.00	3	B
	CUE66002	Kurdish Language								
<b>TOTAL</b>			<b>13</b>	<b>13</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>21</b>	



## SECOND YEAR

### 3<sup>rd</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54021	Analytical Chemistry	2	3	-	-	-	5.00	3	C
2	CUE54022	Organic Chemistry	2	3	-	-	-	5.00	3	C
3	CUE54023	Specimen Processing and Biosafety	2	3	-	-	-	4.00	3	C
4	CUE32022	Basic Histology	2	3	-	-	-	5.00	3	S
5	CUE32023	General Microbiology	2	3	-	-	-	4.00	3	S
6	CUE54024	Instrumentation and Laboratory Techniques	1	3	-	-	-	4.00	2	S
7	CUE33024	First Aid	1		3	-	-	3.00	2	S
<b>TOTAL</b>			<b>12</b>	<b>18</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>19</b>	

### 4<sup>th</sup> Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54031	Biochemistry	2	3	-	-	-	5.00	3	C
2	CUE32062	Basic Immunology	2	3	-	-	-	5.00	3	C
3	CUE54032	Haematology and Blood Bank	2	3	-	-	-	4.00	3	C
4	CUE54033	Quality Control and Laboratory Management	2	3	-	-	-	4.00	3	C
5	CUE32032	Systemic Histology	2	3	-	-	-	5.00	3	S
6	CUE32033	Medical Microbiology	2	3	-	-	-	5.00	3	S
7	CUE54034	Communication Skills	2	-	-	-	-	2.00	2	S
<b>TOTAL</b>			<b>14</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>20</b>	



## THIRD YEAR

5 <sup>th</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE33053	Medical Immunology	2	3	-	-	-	5.00	3	C
2	CUE53071	Complementary Medicine	3	-	-	-	-	5.00	3	C
3	CUE54041	Medical Biochemistry I	2	3	-	-	-	4.00	3	C
4	CUE53023	Medical Genetics	2	3	-	-	-	4.00	3	C
5	CUE51033	Human Physiology	2	3	-	-	-	4.00	3	C
6	CUE54042	Endocrine System and Hormones	2	3	-	-	-	4.00	3	C
7	CUE32047	Biostatistics	3	-	-	-	-	4.00	3	S
<b>TOTAL</b>			<b>16</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>21</b>	

6 <sup>th</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54051	Toxicology	2	3	-	-	-	5.00	3	C
2	CUE33072	General Pathology	2	3	-	-	-	5.00	3	C
3	CUE54052	Medical Biochemistry II	2	3	-	-	-	4.00	3	C
4	CUE33063	Epidemiology and Infectious Diseases	3	-	-	-	-	4.00	3	C
5	CUE54053	Enzymology	2	-	-	-	-	4.00	2	C
6	CUE54054	Pharmacology	2	-	-	-	-	4.00	2	S
7	CUE54055	Research Methods and Ethics	2	-	-	-	1	4.00	2	S
<b>TOTAL</b>			<b>15</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>30</b>	<b>18</b>	



## FOURTH YEAR

7 <sup>th</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54061	Pharmacognosy	2	3	-	-	-	5.00	3	C
2	CUE54062	Metabolism of Human Diseases	3	-	-	-	-	5.00	3	C
3	CUE54063	Nanotechnology	3	-	-	-	-	4.00	3	C
4	CUE32064	Molecular Biology	3	-	-	-	-	4.00	3	C
5	CUE54065	Laboratory Practices	-	-	6	-	-	5.00	3	E
6	CUE54066	Electronic Medical Records	1	3	-	-	-	4.00	2	E
7	CUE54080	Graduation Project	-	-	2	-	-	3.00	1	C
<b>TOTAL</b>			<b>12</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>18</b>	

8 <sup>th</sup> Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE54071	Food and Drug Analysis	2	3	-	-	-	5.00	3	C
2	CUE54072	Free Radicals and Antioxidants	3	-	-	-	-	5.00	3	C
3	CUE54073	Molecular Basis of Diseases	3	-	-	-	-	5.00	3	C
4	CUE54074	Tumor Markers	2	3	-	-	-	5.00	3	E
5	CUE54075	Hospital Practices	-	-	-	6	-	5.00	3	E
6	CUE54080	Graduation Project	-	-	2	-	-	5.00	1	C
<b>TOTAL</b>			<b>10</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>30</b>	<b>16</b>	

## إقليم كوردستان - العراق

جامعة جيهان - أربيل

الكلية التقنية الصحية

قسم التحليلات الكيميائية الحياتية الطبية



Kurdistan Region – Iraq

Cihan University - Erbil

College of Health Technology

Department of Medical Biochemical Analysis

## هەرێمی کوردستان - عێراق

زانکۆی جيهان - ههولێر

کۆلیژی تەکنیکی تەندروستی

بەشی شیکاری کیمیایی پزیشکی

Total CL (Class Lecture) =	<b>104 hrs.</b>	Total ECTS of C (Core) =	<b>136 (56.6%)</b>
Total L (Laboratory) =	<b>95 hrs.</b>	Total ECTS of S (Supporting) =	<b>55 (22.9%)</b>
Total P (Practical Training) =	<b>25 hrs.</b>	Total ECTS of B (Basic) =	<b>30 (12.5%)</b>
Total Clin. (Clinical) =	<b>6 hrs.</b>	Total ECTS of E (Elective) =	<b>19 (7.9%)</b>
Total T (Tutorial) =	<b>1 hr.</b>	Total ECTS =	<b>240</b>
Total Hours =	<b>231</b>	Total Units =	<b>154</b>