


	6	MBT31-ED	Experimental Design &Academic Writing	تصميم التجارب والكتابة الجامعية	English	2						3	33	17	50	2.00	S		
						Total	12	0	10	0	5	0	25	428	322	750	30.00		
	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SWL (hr/w)					Exam hr/	SSWL	USSWL	SWL	ECTS	Module	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem				
	Six	1	MBT32-HC	#REF!	#REF!	English	2		2		1		4	79	121	200	8.00	C	Principles of Genetics
		2	MBT32-VV	#REF!	#REF!	English	2		2		1		4	79	71	150	6.00	C	Medical microbiology+Immunology
		3	MBT32-Nb	#REF!	#REF!	English	2		2		1		4	79	21	100	4.00	C	Biophysics & Principle of Biotechnology
		5	MBT32-MBII	#REF!	#REF!	English	2		2		1		4	79	121	200	8.00	C	Molecular Biology -I
		6	#REF!	#REF!	#REF!	English	2						3	33	17	50	2.00	C	Immunology
		7	URETH	Ethics	اخلاقيات المهنة	Arabic	1						3	18	7	25	1.00	B	
						Total	11	0	8	0	4	0	22	367	358	725	29.00		
	Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SWL (hr/w)					Exam hr/	SSWL	USSWL	SWL	ECTS	Module	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem				
	UGIV	Seven	1	MBT41-GEI	Genetic Engineering-I	الهندسة الوراثية-1	English	2			1		3	48	52	100	4.00	C	Molecular biology I&II
			2	MBT41-BIF	Bioinformatics	المعلوماتية الحيوية	English	2		2			4	79	121	200	8.00	C	molecular biology +Computer Science
			3	MBT 41-FS	Forensic DNA typing	تتميط الDNA العدلي	English	2		2			4	79	121	200	8.00	C	Molecular biology
			4	MBT41-GRI	Graduation Research Project-I	مشروع بحث التخرج-1	English	2		2			4	79	71	150	6.00	C	
			5	MBt41-EI	Elective-I	اختياري-1	English	2					3	33	17	50	2.00	E	
			6	MBT41-IB	Innovation in Biotechnology	الابتكارات في التقنيات الاحيائية	English	2					3	33	17	50	2.00	S	
						Total	12	0	6	0	4	0	21	351	399	750	30.0		
	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SWL (hr/w)					Exam hr/	SSWL	USSWL	SWL	ECTS	Module	Prerequisite Module(s) Code	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem				
	Eight	1	MBT42-HMG	Human Molecular Genetics	الوراثة الجزيئية البشرية	English	2		2		1		4	79	121	200	8.00	C	Principles of Genetics+Molecular Biology
		2	MBT42-GEII	Genetic Engineering-II	الهندسة الوراثية -1	English	2				1		3	48	52	100	4.00	C	Genetic engineering -1
		3	MBT42-TC	Toxicology	علم السموم	English	2		2				4	79	71	150	6.00	C	Medical microbiology
		4	MBT42-GRII	Graduation Research Project-II	مشروع بحث التخرج-2	English	2		2				4	79	71	150	6.00	C	
		5	MBT42-CCB	Cancer cell Biology	علم حياة الخلية السرطانية	English	2				1		4	49	51	100	4.00	C	Cell Biology &Molecular cell biology
		6	MBT42-EII	Elective-II	اختياري-2	English	2						3	33	17	50	2.00	E	
						Total	12	0	6	0	5	0	22	367	383	750	30.0		
	Eight																		
	Total 112 0 68 0 35 0 186 3181 2761 5925 239.0																		
	Must be 240 ECTS																		
Internships to fulfill the requirements of the Bachelor's degree																			
Struct	CL	Class Lecture			Module type	B	Basic learning activities			SWL:	Student Workload								
	Lab	Laboratory				C	Core learning activity			SSWL:	Structured SWL								
	Pr	Practical Training				S	Support or related learning activity			USSWL:	Unstructured SWL								
	Tut	Tutorial				E	Elective learning activity												
	Lect	Online lecture																	
	Sem	Seminar																	
		Note: Columns O, Q and R are reserved for assessment activities																	
		Elective -I & Elective-II																	
		Stem cells and Gene therapy																	
		Antibody Engineering																	
		Metabolic pathways																	
		Molecular Haematology																	
		Proteomics& Genomics																	

Republic of Iraq - Ministry of Higher Education and Scientific Research

Name of University

Bachelor's degree in Electrical Engineering (First cycle)

Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr

Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي

اسم الجامعة

بكالوريوس في الهندسة الكهربائية (الدورة الأولى)

أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة ائتمانية - كل وحدة ائتمانية = ٢٥ ساعة

المنهاج الدراسي للعام ٢٠٢٣-٢٠٢٤

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)									
UGI	One	1	UoB12345	Academic English	الانجليزية الأكاديمية	English	4	1					3	78	47	125	5.00	B			
		2	UoB12346	Physical Electronics	الإلكترونيات الفيزيائية	English	4						3	63	62	125	5.00	B			
		3	UoB12347	Mathematics	الرياضيات	English	4				2			3	93	57	150	6.00	B		
		4	UoB12348	Electrical Circuits	الدوائر الكهربائية	English	4	1	2				4	109	91	200	8.00	C			
		5	UoB12349	Computer Programming	برمجة الحاسب الآلي	English	2		2				4	64	86	150	6.00	B			
		6												0		0	0.00				
								Total	18	2	4	0	2	0	17	407	343	750	30.00		
	UGI	Two	1											0		0	0.00				
			2											0		0	0.00				
			3											0		0	0.00				
			4											0		0	0.00				
			5											0		0	0.00				
6													0		0	0.00					
							Total	0	0	0	0	0	0	0	0	0.00					
UGI	Three	1											0		0	0.00					
		2											0		0	0.00					
		3											0		0	0.00					
		4											0		0	0.00					
		5											0		0	0.00					
		6											0		0	0.00					
							Total	0	0	0	0	0	0	0	0.00						
UGII	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)									
		1												0		0	0.00				

Four	2												0		0	0.00		
	3												0		0	0.00		
	4												0		0	0.00		
	5												0		0	0.00		
	6												0		0	0.00		
	Total							0	0	0	0	0	0	0	0	0	0.00	
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)							
Five	1												0		0	0.00		
	2												0		0	0.00		
	3												0		0	0.00		
	4												0		0	0.00		
	5												0		0	0.00		
	6												0		0	0.00		
Total							0	0	0	0	0	0	0	0	0	0.00		
UGIII	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)							
Six	1												0		0	0.00		
	2												0		0	0.00		
	3												0		0	0.00		
	4												0		0	0.00		
	5												0		0	0.00		
	6												0		0	0.00		
Total							0	0	0	0	0	0	0	0	0	0.00		
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)							
Seven	1												0		0	0.00		
	2												0		0	0.00		
	3												0		0	0.00		
	4	UoB12345	Deep Learning		English	5				1			4	94	56	150	6.00	E
	5												0		0	0.00		
Total							5	0	0	1	0	0	4	94	56	150	6.0	
UGIV	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)							
	1												0		0	0.00		
	2												0		0	0.00		

Eight	3										0		0	0.00			
		UoB12311	Mobile Communicaion														
	4	UoB12312	Neural Networks	English	4		1				4	79	21	100	4.00	E	
		UoB12313	Internet of Things	English													
	5										0		0	0.00			
					Total	4	0	1	0	0	0	4	79	21	100	4.0	
					Total	27	2	5	1	2	0	25	580	420	1000	40.0	Must be 240 ECT

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

Structured SWL (hr/w) type	CL	Class Lecture	Module type	B	Basic learning activities	SWL:	Student Workload
	Lab	Laboratory		C	Core learning activity	SSWL:	Structured SWL
	Pr	Practical Training		S	Suport or related learning activity	USSWL:	Unstructured SWL
	Tut	Tutorial		E	Elective learning activity		
	Lect	Online lecture					
Sem	Seminar						

Note: Columns O, Q and R are progmaed, protected and should not be edited

UNIVERSITY of Baghdad

Bachelor's level (First cycle) - Honors Bachelor degree in Pharmacy

Five years (Ten semesters) - 300 ECTS credits - 1 ECTS = 25

Program Curriculum (2023 - 2024)

Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
One		1	UoB12345	Academic English	الانجليزية الأكاديمية	English	2			6		2	114	36	150	6.00	B	
		2	UoB12346	Academic Computing	الحوسبة الأكاديمية	English				4		2	58	42	100	4.00	B	
		3	UoB12347	Kurdistan Studies	دراسات كردستان	Kurdish	3					2	44	56	100	4.00	B	
		4	UoB12348	Medical Physics	الفيزياء الطبية	English	3	3				4	88	37	125	5.00	S	
		5	UoB12349	Introduction to Pharmaceutical Science	مقدمة في العلوم الصيدلانية	English	4					2	58	67	125	5.00	C	
		6	UoB12350	Human Biology	علم الأحياء البشري	English	3	3				4	88	62	150	6.00	S	
							15	6	0	10	0	16	450	300	750	30.0		
UGI	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
Two		1	UoB12350	Academic Debate		English	2			4		2	86	14	100	4.00	B	
		2	UoB12351	Pharmaceuticals Calculations		English	4					2	58	42	100	4.00	C	
		3	UoB12352	Medical Terminology		English	3					2	44	56	100	4.00	C	
		4	UoB12353	Human Anatomy		English	2	3				2	72	78	150	6.00	S	
		5	UoB12354	Histology		English	2	3				2	72	78	150	6.00	S	
		6	UoB12355	Analytical Chemistry		English	2	3				2	72	78	150	6.00	C	
							15	9	0	4	0	12	404	346	750	30.00		
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
Three		1	UoB12355	Pharmaceutics I (Drops-Injections-Syrup)		English	2	3				4	74	51	125	5.00	C	
		2	UoB12356	Pharmaceuticals Instrumental Analysis		English	2	3				4	74	51	125	5.00	C	
		3	UoB12357	Human Physiology		English	3	3				4	88	37	125	5.00	C	
		4	UoB12358	Organic Chemistry		English	4	3				4	102	98	200	8.00	C	
		5	UoB12359	Physical Pharmacy		English	2	3				4	74	26	100	4.00	S	
		6	UoB12360	Clinical Nutrition and Supplements		English	2					2	30	45	75	3.00	S	
							15	15	0	0	0	22	442	308	750	30.00		
UGII	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
Four		1	UoB12360	Pharmaceutics II (Tablets + Capsules)		English	2	3				4	74	76	150	6.00	C	CUE91021
		2	UoB12361	Principles of drug Actions		English	3					2	44	56	100	4.00	C	
		3	UoB12362	Pathophysiology		English	2	3				4	74	76	150	6.00	S	
		4	UoB12363	Biochemistry		English	4	4				4	116	84	200	8.00	S	

		5	UoB12364	Microbiology		English	2	3				4	74	26	100	4.00	S	
		6	UoB12365	Communication Skills		English	2					2	30	20	50	2.00	S	
							15	13	0	0	0	20	412	338	750	30.00		
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
	Five	1	UoB12365	Pharmaceutics III (cream-ointment-suppositories)		English	2	3				4	74	51	125	5.00	C	UE91021 & CUE9103
		2	UoB12366	Pharmacology I		English	2	3				4	74	51	125	5.00	C	
		3	UoB12367	Toxicology		English	3	3				4	88	62	150	6.00	C	
		4	UoB12368	Drug Delivery Systems		English	3					2	44	56	100	4.00	C	
		5	UoB12369	Immunology		English	2	3				4	74	26	100	4.00	S	
		6	UoB12370	Medical Bacteriology		English	3	3				4	88	62	150	6.00	S	
							15	15	0	0	0	22	442	308	750	30.00		
UGIII	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
	Six	1	UoB12370	Pharmacology II		English	2	3				4	74	51	125	5.00	C	CUE91042
		2	UoB12371	Pharmacognosy I		English	2	3				4	74	51	125	5.00	C	
		3	UoB12372	Pharmaceutical Chemistry I		English	3	3				4	88	62	150	6.00	C	
		4	UoB12373	Biopharmaceutics and Pharmacokinetics		English	4					2	58	67	125	5.00	C	
		5	UoB12374	Medical Virology		English	2	3				4	74	51	125	5.00	S	
		6	UoB12375	Pharmacoeconomics and Marketing		English	3					2	44	56	100	4.00	S	
							16	12	0	0	0	20	412	338	750	30.00		
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
	Seven	1	UoB12375	Pharmaceutical Chemistry II		English	4	4				4	116	84	200	8.00	C	CUE91053
		2	UoB12376	Pharmacognosy II		English	2	3				4	74	51	125	5.00	C	CUE91052
		3	UoB12377	Clinical Toxicology		English	2	3				4	74	51	125	5.00	C	
		4	UoB12378	Research Methods and Ethics		English	3					2	44	56	100	4.00	S	
		5	UoB12379	Biostatistics		English	3					2	44	56	100	4.00	S	
		6	UoB12380	Pharmacy Ethics and Laws		English	2				2	2	58	42	100	4.00	S	
							16	10	0	0	2	18	410	340	750	30.0		
UGIV	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)							
	Eight	1	UoB12380	Industrial Pharmacy		English	2	2				4	60	40	100	4.00	C	
		2	UoB12381	Pharmaceutical Biotechnology		English	3					2	44	56	100	4.00	C	
		3	UoB12382	Pharmaceutical Microbiology		English	3					2	44	56	100	4.00	C	
		4	UoB12383	Hematology and Blood Banking		English	2	3				4	74	51	125	5.00	S	
		5	UoB12384	Molecular Biology		English	2	3				4	74	51	125	5.00	S	

		6	UoB12385	Clinical Pharmacy and Therapeutics		English	4	4				4	116	84	200	8.00	C		
							16	12	0	0	0	20	412	338	750	30.0			
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)								
UGV	Nine	1	UoB12385	Drug Design and Development		English	4					2	58	67	125	5.00	C		
		2	UoB12386	Clinical Biochemistry		English	4				3	4	102	23	125	5.00	C		
		3	UoB12387	Drug Registration and Authorization		English	4					2	58	67	125	5.00	C		
		4	UoB12388	Patient Assessment and Skills		English	3				2	4	74	26	100	4.00	S		
		5	UoB12389	Emergency Medicine		English	2	2				2	58	67	125	5.00	E		
		6	UoB12390	Electronic Medical Records															
		6	UoB12391	Graduation Project		English				2		2	30	120	150	6.00	C		
							17	2	0	2	5	16	380	370	750	30.0			
							UoB12391												
UGV	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/	USSW hr/	SWL hr/	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)								
UGV	Ten	1	UoB12391	Pharmaceuticals Quality Control		English	3				3	4	88	62	150	6.00	C		
		2	UoB12392	Drugs Interactions		English	3					2	44	56	100	4.00	C		
		3	UoB12393	Community Pharmacy (OTC)		English	3				3	4	88	62	150	6.00	C		
		4	UoB12394	Infectious Diseases and Vaccines		English	3					2	44	56	100	4.00	S		
		5	UoB12395	Cosmetics & Aesthetics		English	2	2				4	60	40	100	4.00	E		
		6	UoB12396	Nuclear Pharmacy															
		6	UoB12391	Graduation Project		English				2		2	30	120	150	6.00	C		
							14	2	0	2	6	18	354	396	750	30.0			
							Total	154	96		18	13	184	4118	3382	7500	300.0		
Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor of Science degree																			
Type	B	Basic learning activities				Note: Prerequisite modules is fulfilled by attendance (formative assessment), not by passing grade.											Title	No.	%
	C	Core learning activity															Total ECTS per semester =	30	
	S	Supported or related learning activity															Total ECTS per program =	300	
hr/w	E	Elective learning activity														Total SWL hr per program =	810		
	CL	Class Lecture														ECTS of core modules =		0.0%	
	Lab	Laboratory														SWL: Student workload	ECTS of supporting modules =		0.0%
	P	Practical Training														SSWL: Structured SWL	ECTS of basic modules =		0.0%
	Clin	Clinical														USSWL: Unstructured SWL			
	Lect	Online lecture																	

