Department of Biology (Medical Microbiology)

[Bologna Process]

FIRST YEAR

1st Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE34001	Principles of Microbiology	2	3	-	-	-	5.00	3	C
2	CUE33001	Human Biology	2	3	-	-	-	5.00	3	C
3	CUE54001	General Chemistry	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
TOTAL			11	13	6	0	0	30.00	19	

2nd Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE34011	Introduction to Medical Microbiology	2	3	-	-	-	5.00	3	C
2	CUE34012	Biosafety, Biosecurity and Risk Assessment	2	3	-	-	-	4.00	3	C
3	CUE32012	Biophysics	2	3	-	-	-	4.00	3	S
4	CUE33012	Biomedical 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								
TOTAL			13	13	6	0	0	30.00	21	

SECOND YEAR

3rd Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE34021	Medical Helminthology	2	3	-	-	-	5.00	3	C
2	CUE32022	Basic Histology	2	3	-	-	-	5.00	3	C
3	CUE34022	Microbial Ecology	2	3	-	-	-	4.00	3	C
4	CUE33023	Biomedical Investigations and Laboratory Practices	2	3	-	-	-	4.00	3	C
5	CUE32002	Cell Biology	2	3	-	-	-	5.00	3	S
6	CUE32026	Biochemistry (Proteins and Nucleic acids)	2	3	-	-	-	4.00	3	S
7	CUE33024	First Aid	1	-	3	-	-	3.00	2	S
TOTAL			13	18	3	0	0	30.00	20	

4th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE34031	Systemic Bacteriology	2	3	-	-	-	5.00	3	C
2	CUE33032	Medical Protozoology	2	3	-	-	-	5.00	3	C
3	CUE32032	Systemic Histology	2	3	-	-	-	5.00	3	C
4	CUE34032	Medically Important Arthropods	2	3	-	-	-	5.00	3	C
5	CUE32036	Biochemistry (Carbohydrates and Lipids)	2	3	-	-	-	4.00	3	S
6	CUE54054	Pharmacology	2	-	-	-	-	4.00	2	S
7	CUE34033	Communication Skills	2	-	-	-	-	2.00	2	S
TOTAL			14	15	0	0	0	30.00	19	

THIRD YEAR

5th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE32041	Entomology	3	3	-	-	-	5.00	4	C
2	CUE32042	Animal Physiology	2	3	-	-	-	5.00	3	C
3	CUE32043	Food and Industrial Microbiology	2	3	-	-	-	4.00	3	C
4	CUE32044	Microbial Physiology	2	3	-	-	-	4.00	3	C
5	CUE32045	Genetics	2	3	-	-	-	4.00	3	C
6	CUE32046	Ecology and Pollution	2	3	-	-	-	4.00	3	S
7	CUE32047	Biostatistics	3	-	-	-	-	4.00	3	S
TOTAL			16	18	0	0	0	30.00	22	

6th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE32051	Plant Physiology	2	3	-	-	-	5.00	3	C
2	CUE32052	Mycology	2	3	-	-	-	4.00	3	C
3	CUE32053	Soil and Water Microbiology	2	3	-	-	-	4.00	3	C
4	CUE32054	Microbial Genetics	2	3	-	-	-	4.00	3	C
5	CUE32055	Endocrinology	2	3	-	-	-	5.00	3	S
6	CUE32056	Plant Groups	2	3	-	-	-	4.00	3	S
7	CUE32057	Research Methods and Ethics	2	-	-	-	1	4.00	2	S
TOTAL			14	18	0	0	1	30.00	20	

FOURTH YEAR (Non-Bologna)

7th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	BIO411	Pathogenic Bacteria I	2	3	-	-	-	-	3	-
2	BIO412	Immunology I	2	3	-	-	-	-	3	-
3	BIO413	Molecular Biology I	2	-	-	-	-	-	2	-
4	BIO414	Chordates & Comparative Anatomy I	2	3	-	-	-	-	3	-
5	BIO415	Elective Course: Laboratory Techniques	1	3	-	-	-	-	2	-
6	BIO416	Elective Course: Haematology	1	3	-	-	-	-	2	-
7	BIO419	Final Year Project	-	-	2	-	-	-	0	-
TOTAL			10	15	2	0	0	0	15	

8th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	BIO421	Pathogenic Bacteria II	2	3	-	-	-	-	3	-
2	BIO422	Immunology II	2	3	-	-	-	-	3	-
3	BIO423	Molecular Biology II	2	-	-	-	-	-	2	-
4	BIO424	Chordates & Comparative Anatomy II	2	3	-	-	-	-	3	-
5	BIO425	Elective Course: Tumour Biology	2	-	-	-	-	-	2	-
6	BIO426	Elective Course: Antibiotics	2	-	-	-	-	-	2	-
7	BIO429	Final Year Project	-	-	2	-	-	-	2	-
TOTAL			12	9	2	0	0	0	17	