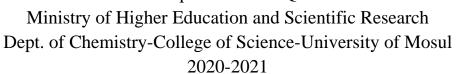


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Republic of IRAQ





First Year Second Course First Course Practic Course Practical Theoretical Course Theoretical Courses al Courses Credits **Hours Hours** Credits **Hours** Hours 2 3 2 2 3 Inorganic Chemistry **Inorganic Chemistry** 2 2 Mathematics 2 2 Mathematics 2 3 2 3 2 2 Cell **Analytical Chemistry** 2 2 3 **Analytical Chemistry** 2 2 2 Geology 3 2 Physics 1 1 Democracy 1 1 **Human Rights** 2 1 Computer 2 2 English Language 2 2 Arabic Language Safety and chemical 2 2 security **Second Course Credits First Course Credits**

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Ministry of Higher Education and Scientific Research Dept. of Chemistry-College of Science-University of Mosul 2020-2021



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Second Course			First Course				
Course Credits	Practical Hours	Theoretical Hours	Courses	Course Credits	Practical Hours	Theoretical Hours	Courses
4	2	3	Organic Chemistry	4	2	3	Organic Chemistry
4	2	3	Physical Chemistry	4	2	3	Physical Chemistry
3.5	3	2	Analytical Chemistry	3.5	3	2	Analytical Chemistry
3	2	2	Inorganic Chemistry	3	2	2	Inorganic Chemistry
1		1	Chemical Hazards	2		2	Pollution
1		1	Mathematics	2		2	Mathematics
2	2		Computer	2	2		Computer
17.5 Second Course Credits		19.5	First Course Credits				

Third Year

Second Course			First Course				
Course Credits	Practical Hours	Theoretical Hours	Courses	Course Credits	Practical Hours	Theoretical Hours	Courses
4.5	3	3	Physical Chemistry	4.5	3	3	Physical Chemistry
3.5	3	2	Organic Chemistry	3.5	3	2	Organic Chemistry
2		2	Industrial Chemistry	2		2	Industrial Chemistry
4	2	3	Biochemistry	4	2	3	Biochemistry
3	2	2	Inorganic Chemistry	3	2 2 Inorganic Chemistry		Inorganic Chemistry
3.5	3	2	Separation Methods	1		1	Elective course
1		1	Elective			G	
21.5 Second Course Credits		18	First Course Credits				



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Fourth Year

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Second Course				First Course			
Course Credits	Practical Hours	Theoretical Hours	Courses	Course Credits	Practical Hours	Theoret ical Hours	Courses
3	2	2	Polymer Chemistry	3	2	2	Polymer Chemistry
3	2	2	Petrochemicals	3	2	2	Petroleum Chemistry
3.5	3	2	Identification Compounds	3.5	3	2	Identification Compounds
4	2	3	Biochemistry	4	2	3	Biochemistry
3		3	Spectroscopy	3	2	2	Instrumental Analysis
2		1	Research project	3		3	Physical Chemistry
1		1	Elective	1		1	Elective
19.5	19.5 Second Course Credits			20.5		First Co	urse Credits