



## اللائحة الدراسية:

### First year

semester	Level	Number of hours/week			Course Name	Course code
		Lab.	exercises	Lectures		
first semester	First year	4	0	4	General Chemistry	101 C
		4	1	4	Optics - Electricity	101 Ph
		0	2	3	Geometry - Statics	101 M
		0	2	1	Computer	
		0	2	4	Calculus	102 M
second semester		4	0	2	General Chemistry	102C
		0	0	2	Organic Chemistry	103 C
		4	1	4	Heat and Properties of Matter Magnetism	102 Ph
		0	3	4	Advanced Calculus and Algebra	103M
		0	2	3	Dynamics	104 M
	0	1	2	English Language	102 L	

### Second year

semester	Level	Number of hours/week			Course Name	Course code
		Lab.	exercises	Lectures		
first semester	Second year	4	1	3	Chemical Thermodynamic and Chemical Equilibrium	201 C
		2	1	2	Organic Chemistry	202 C
		2	0	2	Thermodynamics	201 Ph
		4	1	3	Electric Circuits and Electrostatics	205 Ph
		0	1	2	Mathematics	207 M
		2	0	1	Crystals and Optics	201 G
second semester		2	1	3	Human Rights and General Principles of The Law	
		4	1	2	Inorganic and Analytical Chemistry	203 C
		4	1	2	Organic Chemistry	204 C
		2	1	3	Solid State and Electronics	203 Ph
	2	0	1	Atomic Physics and Physical Optics	206 Ph	
	2	0	1	Computer Sciences	208 M	
	0	1	2	Geochemistry	202 G	
0	0	2	English Language	202 L		



## Third year

semester	Level	Number of hours/week			Course Name	Course code
		Lab.	exercises	Lectures		
first semester	Third year	0	1	4	Quantum Chemistry and Electrochemistry	301 C
		0	0	2	Gases & Physical Chemistry Kinetics	302 C
		4	1	3	Inorganic chemistry Transition Metals Complexes &	303 C
		4	1	3	Physical Organic Stereochemistry	304 C
		4	0	2	Organic chemistry Alicyclic	305 C
		0	1	1	Statistics & Probability	338 M
		2	0	1	Computer	
second semester		0	0	3	Catalysis & Physical Chemistry (Surfaces ( and Colloides	306 C
		4	1	2	Analytical Chemistry	307 C
		4	1	3	Spectroscopy Molecular Spectroscopy + Spectral Analysis	308 C
		2	1	3	Organic Chemistry Heterocyclic + Microanalysis	309 C
		2	0	3	Organic Chemistry Organo-Carbohydrate & Chemistry metallic + Petroleum	310 C
		0	0	1	Statistics & Probability	339 M
		0	1	2	English Language	302 L

## Fourth year

semester	Level	Number of hours/week			Course Name	Course code
		Lab.	exercises	Lectures		
first semester	Fourth year	8	0	2	Photo and Solid State Chemistry	401 C
		0	1	2	Bonding Theories Magnetochemistry	402 C
		0	0	2	Advanced Inorganic Chemistry	403 C
		4	0	3	Natural Products & Dyes	404 C
		4	1	3	Biochemistry & Physical Organic	405 C
second semester		4	1	2	Physical Chemistry Statistical Thermodynamic Corrosion	406 C
		4	0	2	(Chemistry (Optional Physical	407 C
		0	1	2	Inorganic Chemistry (Nuclear and (Applied Chemistry	408 C
		4	0	2	(Organic Chemistry (Optional	409 C
		4	1	4	Organic Chemistry (Spectroscopy + Natural Products Polymer and (Chemotherapy	410 C
		0	1	2	English Language	402 L
	2	0	1	Computer		
0	0	2	Essay			