

## The Study Plan for the Bachelor of Science in Chemistry Program

(level 1)

no.of courses ( 6 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
11030119	English Language 1	6	0	3	-
31041103	Calculus 1	4	0	4	-
31011103	General Biology	3	2	4	-
11010101	Islamic Culture 1 (The Islamic Manners)	2	0	2	-
11020204	Health Culture	1	0	1	-
15011104	Arabic Editing	2	0	2	-
	<b>Total</b>	<b>18</b>	<b>2</b>	<b>16</b>	

(Level 2)

no.of courses ( 5 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
11030219	English Language 2	6	0	3	English Language 1 (11030119)
42020102	General Chemistry 1	3	2	4	-
42032102	General Physics 1	3	2	4	-
11010111	Islamic Culture 2 (The Islamic Civilization)	2	0	2	-
11020107	The Holy Koran (Recitation Correction)	2	0	2	-
	<b>Total</b>	<b>16</b>	<b>4</b>	<b>15</b>	

(Level 3)

no.of courses ( 6 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021213	General Chemistry 2	3	2	4	General Chemistry 1 (42020102)
42021219	Inorganic Chemistry I	3	2	4	General Chemistry 1 (42020102)
42021217	Organic Chemistry 1	3	2	4	General Chemistry 1 (42020102)
42041203	Principles of Statistics & Probability	3	0	3	-
42021221	Specialized English Language	2	0	2	English Language 2 (11030219)
11010113	Voluntary Community Service 1	0	0	0	-
	<b>Total</b>	<b>14</b>	<b>6</b>	<b>17</b>	

(Level 4)

no.of courses ( 6 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021214	Organic Chemistry 2	3	2	4	Organic Chemistry 1 (42021217)
42021220	Inorganic Chemistry 2	3	2	4	Inorganic Chemistry I (42021219)
42031216	General Physics 2	2	2	3	General Physics 1 (42032102)
42011210	General Physiology	3	0	3	General Biology (42011103)
42041230	Calculus 2	3	0	3	Calculus 1 (42041103)
11010123	Voluntary Community Service 2	0	0	0	-
	<b>Total</b>	<b>14</b>	<b>6</b>	<b>17</b>	

(level 5)

no.of courses ( 6 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021309	Analytical Chemistry 1	3	2	4	General Chemistry 1 (42020102)
42021319	Biochemistry 1	3	2	4	Organic Chemistry 2 (42021214)
42021321	Petroleum Chemistry	2	0	2	Organic Chemistry 2 (342021214)
42021311	Physical Chemistry 1	2	2	3	General Chemistry 2 (42021213)
42021317	Inorganic Chemistry 3	3	0	3	Inorganic Chemistry 2 (42021220)
11010112	Research and Essay Writing skills	2	0	2	-
	<b>Total</b>	<b>15</b>	<b>6</b>	<b>18</b>	

(Level 6)

no.of courses ( 7 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021322	Physical Chemistry 2	2	0	2	Physical Chemistry 1 (42021311)
42021320	Analytical Chemistry 2	3	2	4	Analytical Chemistry 1 (42021309)
42021314	Principles of Industrial Chemistry	2	0	2	General Chemistry 2 (42021213)
42021312	Environmental Chemistry	2	0	2	-
42021324	Electrochemistry	2	0	2	Physical Chemistry 1 (42021311)
42021316	Nuclear and Radioactive Chemistry	2	0	2	Physical Chemistry 1 (42021311)
42021318	Chemistry of Heterocyclic Compounds	2	2	3	Organic Chemistry 2 (42021214)
	<b>Total</b>	<b>15</b>	<b>4</b>	<b>17</b>	

(level 7)

no.of courses ( 6 )

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021437	Physical Chemistry 3	3	0	3	Physical Chemistry 1 (42021311)
42021431	Graduation Project	1	2	2	85 Credit hours
42021435	Analytical Chemistry 3	2	2	3	Analytical Chemistry 1 (342021309)
42021433	Polymer Chemistry	3	0	3	Organic Chemistry 2 (42021214)
42021423	Spectroscopy	2	0	2	Analytical Chemistry 2 (42021320)
	Major Elective 1(chemistry)	3	0	3	
	<b>Total</b>	<b>16</b>	<b>2</b>	<b>17</b>	

(level 8)

no.of courses ( 6)

Code No.	Course Title	Hours Distribution			prerequisite
		LT	LP	Credit	
42021424	Chemistry of Natural Products	3	0	3	Organic Chemistry 2 (42021214)
42021412	Coordination Chemistry	2	0	2	Inorganic Chemistry 2 (42021220)
42021422	Chemical Kinetics	2	0	2	Physical Chemistry 1 (42021311)
42021426	Organic Synthesis	2	2	3	Organic Chemistry 2 (42021214)
42021428	Material Science	3	0	3	Physical Chemistry 1 (42021311)
	Major Elective 2(chemistry)	3	0	3	
	<b>Total</b>	<b>13</b>	<b>4</b>	<b>15</b>	



Elective (1)					
Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Pre-Requisite Code
42021425	Water Treatment	Elective	Principles of Industrial Chemistry	3	42021314
42021427	Organic Reaction Mechanism	Elective	Organic Chemistry (2)	3	42021214
42021429	Electroanalytical Methods	Elective	Electrochemistry	3	42021324
Total Credit Hours		9			
Elective (2)					
42021432	Biochemistry (2)	Elective	Biochemistry (1)	3	42021319
42021434	Polynuclear Aromatic Compounds	Elective	Organic Chemistry (2)	3	42021214
42021438	Chemistry of Minerals extraction and Corrosion	Elective	Inorganic Chemistry (2)	3	42021220
Total Credit Hours		9			