



**University of Mosul**  
**College of Science**  
**Chemistry Department**  
**2023-2024**

**Academic Program  
and  
Course Description Guide**



## ***Introduction:***

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.



## Academic program description form

### *Description of the academic program*

This academic program description provides a necessary summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program.

<b>1- Educational institution</b>	<b>University of Mosul / College of Science</b>
<b>2- University department/center</b>	<b>Chemistry</b>
<b>3- Name of the academic program</b>	<b>ABET</b>
<b>4- Name of the final certificate</b>	<b>Bachelor's degree (Chemistry Sciences)</b>
<b>5- The academic system</b>	<b>courses</b>
<b>6- Accredited accreditation program</b>	<b>ABET</b>
<b>7- Date the description was prepared</b>	<b>2/4/2024</b>
<b>8- Objectives of the academic program</b>	<b>Reaching the national classification</b>



## ***Required educational outcomes and teaching, learning and evaluation methods:***

Success in academic subjects for the four years + graduation research + summer training:

### **A- Knowledge and understanding**

- 1- Enabling the student to understand the subject of chemistry
- 2- The student should understand the nature of matter and its chemical composition
- 3- That the student understands the mechanisms of chemical reactions

### **B- Subject-specific skills**

- 1- Enables the student to teach chemistry
- 2- Enables the student to work in laboratories and health institutions
- 3- Enables the student to work in research institutions
- 4- Enables the student to work in the chemical and petroleum industries

### **C- Thinking skills**

- 1- Discussions
- 2- Duties
- 3- Laboratory reports
- 4- Scientific reports



## ***Vision Statement***

We need dedicated teachers who employ efficient teaching techniques if we're going to realize the objective. to disseminate modern technological knowledge and education. to mold our young kids into morally and professionally upright adults. to raise productivity and value-based living standards through an ethical and rational strategy. The goal of the Department of Chemistry is to lead the field of chemistry toward a sustainable future by concentrating on key areas of fundamental research. These include researching and designing novel materials and chemical processes. Additionally, by integrating teaching, research, and growth across the curriculum, we want to change the student experience.

## ***Mission Statement***

One of the main goals of the college was to qualify students academically and scientifically in a way that is fully consistent with the requirements of scientific progress regarding basic sciences, which represent the fundamental knowledge of the universe. The chemistry department's mission is to prepare students professionally and scientifically through a scientific program that focuses on the student's need for education and tools. The Chemistry Department, which is trying to enhance human health, opens the path for research into possible cures. Advancements in diagnosis and mechanism of action are made possible by the development of innovative instruments for investigation and diagnosis.

## **Program Specification :**

<b>Program code:</b>	BSc-Che	<b>ECTS</b>	240
<b>Duration:</b>	4 levels, 8 Semesters	<b>Method of Attendance:</b>	Full Time



## ***Educational and Program Goals***

1. Offer chemistry majors' current curriculum in each of the five major sub-disciplines of chemistry: organic, inorganic, physical, analytical, and biochemistry to give them a solid foundation in each field.
2. Give biochemistry majors a solid foundation in organic, analytical, and biochemistry while placing an emphasis on the intersection of chemistry and biology.
3. Give students hands-on lab and research experiences that are pertinent to their studies of chemistry while also instructing them in safe, ethical laboratory procedures.
4. Give students the chance to learn about the chemical industries, careers, and daily duties of working chemists and biochemists.
5. By highlighting the interdisciplinary character of chemistry and utilizing concrete examples to highlight links between it and other scientific disciplines, you may give pupils a more comprehensive understanding of the subject.

## ***Program Objectives***

1. expose the learner to chemistry's key subfields.
2. aiding in the understanding of chemical principles by students.
3. Give students an excellent basis for a rewarding career in chemistry.
4. help you to build analytical, quantitative, and critical thinking abilities in chemistry.
5. Enable students to gain knowledge and laboratory skills by having them work in the lab with a variety of chemical processes.
6. increase the student's ability to self-study.
7. assist students in gaining a greater understanding of the theories underpinning the concepts of chemistry.
8. scientists with advanced degrees who can oversee industrial projects.
9. graduates with the scientific expertise to run universities and research institutions both scientifically and administratively.

## ***Student Learning Outcomes***

The Department of Chemistry has been trying to develop professional and educational staffs for the many state directorates, particularly the medical, agricultural, and industrial ones. These staffs are specialized in chemistry and scientific research. The department at the College of Sciences is striving to prepare the students intellectually and scientifically to fully cope with the modernized technology, which is perhaps one of



the department's most essential goals. The department is eager to help students improve their research techniques and acquaint them with software and technology while they do their studies.

By the end of this program students will be able to:

1. Show that you are familiar with the core ideas behind the various fields of chemistry, such as organic, inorganic, physical, analytical, petrochemistry, and biochemistry.
2. Demonstrate knowledge of certain chemical subjects at the cutting edge of research.
3. Recognize the ideas that underpin the actual chemistry experiments and data.

### ***Program Structure: A- Graduated Study :***

Level	Semester	No.	Module Code	Module Name in English	SSWL	USSWL	SWL	ECTS
					hr/sem	hr/sem	hr/sem	
UGI	One	1	CHE1101	Fundamentals of Analytical Chemistry and Qualitative Analysis	109	66	175	7.00
		2	CHE1102	Fundamentals of inorganic chemistry	79	71	150	6.00
		3	CHE1103	Physics	109	66	175	7.00
		4	UOM104	Democracy and Human Rights	34	16	50	2.00
		5	CHE1104	Chemical Security and Safety	79	71	150	6.00
		6	UOM101	Arabic Language	34	16	50	2.00
	Two	1	CHE1215	Volumetric Analytical Chemistry	109	91	200	8.00
		2	CHE1216	Ionic Compounds and Periodic table	109	91	200	8.00
		3	Sci-1105	Mathematics	34	16	50	2.00
		4	CHE1207	Geology	94	81	175	7.00
		5	UOM103	Computer	49	26	75	3.00
		6	UOM102	English Language	34	16	50	2.00
UGII	Three	1	CHE2318	Gravimetric Analysis Chemistry	94	31	125	5.00
		2	CHE2319	Chemistry of Representative Elements	79	46	125	5.00
		3	CHE23010	Thermodynamics	94	56	150	6.00



UGIV	Four	4	CHE23011	Organic Chemistry 1	94	56	150	6.00
		5	CHE23012	Cytology	64	11	75	3.00
		6	CHE23113	Mathematics and Statistics	49	26	75	3.00
		7	UOM201	Baath Party crimes in Iraq	34	16	50	2.00
		1	CHE24114	Classical Separation Methods	94	56	150	6.00
		2	CHE24115	Solid State Chemistry	94	56	150	6.00
		3	CHE24116	Phase equilibrium	94	56	150	6.00
	Five	4	CHE24117	Organic Chemistry 2	94	56	150	6.00
		5	CHE24018	Nanochemistry	49	26	75	3.00
		6	CHE24019	Chemistry Software	49	26	75	3.00
		1	CHE35120	Coordination Chemistry 1	94	56	150	6.00
		2	CHE35121	Chemical Kinetics	94	56	150	6.00
		3	CHE35122	Organic Chemistry 3	94	56	150	6.00
	Six	4	CHE351323	Principles of Biochemistry	94	56	150	6.00
		5	CHE35024	Industrial Chemistry and Pollution	49	51	100	4.00
		6	CHE35025	Elective 1	19	31	50	2.00
		1	CHE36126	Coordination Chemistry 2	94	56	150	6.00
		2	CHE36127	Electrochemistry and Surface chemistry	109	41	150	6.00
		3	CHE36128	Organic Chemistry 4	94	56	150	6.00
	Seven	4	CHE36129	Biomolecules	94	56	150	6.00
		5	CHE36130	Application of Industrial Chemistry	49	51	100	4.00
6		CHE36031	Scientific Research Methodology	19	31	50	2.00	
1		CHE47132	Instrumental Analysis	94	56	150	6.00	
2		CHE47133	Identification of Organic Compounds	79	71	150	6.00	
3		CHE47134	Metabolism of Carbohydrates	94	56	150	6.00	
UGV	Seven	4	CHE47135	Petroleum Chemistry and Petrochemicals	109	41	150	6.00
		5	CHE47036	Quantum Chemistry	64	36	100	4.00
		6	CHE47037	Elective 2	19	31	50	2.00





<b>Eight</b>	1	CHE48138	Chromatographic Methods	94	56	150	6.00
	2	CHE48139	Application of Organic Spectrum	79	71	150	6.00
	3	CHE48140	Metabolism of Lipids and proteins	94	56	150	6.00
	4	CHE48141	Polymers: Fundamentals and applications	109	41	150	6.00
	5	CHE48142	Spectroscopy	64	36	100	4.00
	6	CHE48143	Research Project	33	17	50	2.00

**B-**

**C- Post Graduate Study :**

Codes	Number of hours	University academic system	Subject Name	No.	Educational level
<b>F6061-SCCH10</b>	2	First semester	Industrial chemistry	1	<b>Master</b>
<b>F6091-SCCH10</b>	2	Second Semester	Organic spectrum	2	
<b>F6071-SCCH10</b>	1	Semester (first and (second semester	English language	3	
<b>F6401-SCCH10</b>	2	Second Semester	nutrition Human	4	
<b>F6041-SCCH10</b>	2	Second Semester	Bioinorganic chemistry	5	
<b>F6311-SCCH10</b>	2	Second Semester	Enzymes and hormones	6	
<b>F6301-SCCH10</b>	2	Second Semester	Clinical biochemistry	7	
<b>F6331-SCCH10</b>	2	Second Semester	Molecular biology	8	
<b>F6101-SCCH10</b>	2	Second Semester	Physical organic chemistry	9	
<b>F6151-SCCH10</b>	2	First semester	Colloids	10	
<b>F6021-SCCH10</b>	2	First semester	analytical chemistry	11	
<b>F6171-SCCH10</b>	2	First semester	X-ray	12	
<b>F6161-SCCH10</b>	2	Second Semester	Group Theory	13	
<b>F6111-SCCH10</b>	2	Second Semester	Organic construction	14	
<b>F6191-SCCH10</b>	2	First semester	Advanced life	15	
<b>F6031-SCCH10</b>	2	Second Semester	Life technologies	16	
<b>F6211-SCCH10</b>	2	Second Semester	Molecular interactions	17	
<b>F6341-SCCH10</b>	2	First semester	Thermodynamic	18	
<b>F6081-SCCH10</b>	2	Second Semester	Stereochemistry	19	
<b>F6121-SCCH10</b>	2	Second Semester	Heterocyclic	20	
<b>F6011-SCCH10</b>	2	First semester	Physical processes	21	
<b>F6241-SCCH10</b>	2	Second Semester	Organic analysis	22	



<b>F6411-SCCH10</b>	<b>2</b>	Second Semester	Biopolymer	23	<b>PHD</b>
<b>F7161-SCCH10</b>	2	First semester	Polymerization	1	
<b>F7061-SCCH10</b>	<b>1</b>	Semester (first and (second semester	English language	2	
<b>F7251-SCCH10</b>	2	Second Semester	Human nutrition	3	
<b>F7411-SCCH10</b>	2	Second Semester	Metabolic diseases	4	
<b>F7311-SCCH10</b>	2	First semester	Heterocyclic	5	
<b>F7371-SCCH10</b>	2	First semester	Biotechnology	6	
<b>F7241-SCCH10</b>	2	Second Semester	Enzymes and hormones	7	
<b>F7441-SCCH10</b>	2	Second Semester	Oxidants and antioxidants	8	
<b>F7321-SCCH10</b>	2	Second Semester	Computer Chemistry ((Computational	9	
<b>F7091-SCCH10</b>	2	Second Semester	Organometallic	10	
<b>F7101-SCCH10</b>	2	First semester	Coordination chemistry	11	
<b>F7341-SCCH10</b>	2	Second Semester	Transitional elements	12	
<b>F7581-SCCH10</b>	2	First semester	Inorganic (M. Selected)	13	
<b>F7121-SCCH10</b>	2	First semester	Reaction kinetics	14	
<b>F7151-SCCH10</b>	2	First semester	Physical processes	15	
<b>F7381-SCCH10</b>	2	First semester	Physical spectrum	16	
<b>F7391-SCCH10</b>	2	Second Semester	Colloids and surfaces	17	

### Planning for personal development:

A-Extra-class activity:

- Participation in multiple dialogues via direct sessions provided by advanced universities.
- Participation in national and external scientific conferences and transfer of skills through joint seminars.

B-Extracurricular activities, scientific trips, and scientific tours.

**Admission standard (establishing regulations related to enrollment in the college or institute)**

Central admission



## Academic Program Requirements of Curriculum

Percentage	Hours	Type of Study	No.
%8	8	University Requirements	1
%16	16	College Requirements	2
%76	76	Department Requirements	3
%100	100	<b>Total</b>	

### Department outputs:

1. Determine the department's measurable cognitive skills that are consistent with the objectives of the academic department's programs through daily, quarterly and final examinations and reports.
2. Determine the priorities of the knowledge and skills that the department is keen to achieve for the graduate
3. The extent to which graduate students achieve the department's academic program
4. The department's mechanisms used in evaluating the department's academic program:
  - Graduate opinion polls, as the department cooperates with the head of the rehabilitation and employment unit at the college in order to communicate with the department's graduates and listen to their opinions and ideas in developing the department.
  - Opinions of employment agencies: The department communicates and cooperates with government employment agencies, the most important of which are the Directorate of Health and the Directorate of Education, as well as some companies, health centers and clinics in the private sector.
  - Graduates' performance in jobs: Graduates perform very well in jobs because they have benefited from valuable information during their years of study.



•Graduate employment data through the College's Qualification and Employment Unit.

### Academic Staff:

No.	Name	Academic title	General Subject	Fine Subject
1.	Dr. Salem Jassim Mohammed Saleh Al-Juhaishi	Prof.	Chemistry	Organic Chemistry
2.	Dr. Ammar Abdel Sattar Ibrahim Yahya Al Dabbagh	Prof.	Chemistry	Physical Chemistry
3.	Dr. Imad Younis Hassan Al-Nasser	Lecturer	Chemistry	Analytical Chemistry
4.	Dr. Nabil Sobeih Othman Khader Tahafi	Prof.	Chemistry	Analytical Chemistry
5.	Dr. Rabah Ali Khalil Mahmoud Al-Hamdani	Prof.	Chemistry	Physical Chemistry
6.	Dr. Asaad Faisal Khattab Omran Al Omran	Prof.	Chemistry	Industrial Chemistry
7.	Dr. Salem Ali Muhammad Saleh Qassab	Prof.	Chemistry	Analytical Chemistry
8.	Dr. Adnan Othman Omar Maami Hasakah	Prof.	Chemistry	Organic Chemistry
9.	Dr. Thikra of Ali Fathi Alloush Aloush	Prof.	Chemistry	Biochemistry
10.	Dr. Louay Abdel Ali Ismail Al-Hilali	Prof.	Chemistry	Biochemistry
11.	Dr. Widad Taha Hamed Muhammad Al-Qattan	Prof.	Chemistry	Inorganic Chemistry
12.	Dr. Fawzi Habib Gabriel Ibrahim Ibrahim	Prof.	Chemistry	Industrial Chemistry
13.	Dr. Abdul Rahman Basil Fadel Amin Al-Obaidi	Prof.	Chemistry	Industrial Chemistry
14.	Dr. Zeina Abdel Moneim Muhammad Al-Jawadi	Prof.	Chemistry	Biochemistry
15.	Dr. Zahraa Muhammad Ali Ahmed Mustafa Hamouda	Prof.	Chemistry	Biochemistry
16.	Dr. Amer Thanoun Abdul Rahman Ahmed Al-Taie	Prof.	Chemistry	Physical Chemistry
17.	Dr. Ammar Hussein Abdullah Fares Al-Sabaawi	Prof.	Chemistry	Organic Chemistry
18.	Dr. Hana Shukr Mahmoud Ahmed Al-Omari	Prof.	Chemistry	Analytical Chemistry
19.	Dr. Sahba Ali Ahmed Hassan Al-Sabaawi	Prof.	Chemistry	Inorganic Chemistry
20.	Dr. Shaima Khazal Younis Omar Al-Azzawi	Prof.	Chemistry	Organic Chemistry
21.	Dr. Laila Abdullah Mustafa Abdullah Abdul Al	Assistant Prof.	Chemistry	Biochemistry



22.	Dr. Saba Zaki Mahmoud Khader Al-Abaji	Assistant Prof.	Chemistry	Biochemistry
23.	Dr. Muhammad Bahri Hassan Abdel Saadoun	Assistant Prof.	Chemistry	Biochemistry
24.	Dr. Wasan Khairallah Ali Hussein Al-Dulaimi	Assistant Prof.	Chemistry	Biochemistry
25.	Dr. Iman Ismail Ahmed Majdhab Al-Akidi	Assistant Prof.	Chemistry	Industrial Chemistry
26.	Dr. Fatima Abdul Hamid Muhammad Al-Atrushi	Assistant Prof.	Chemistry	Biochemistry
27.	Dr. Sakina Hussein Rashid Ali Al-Rawi	Assistant Prof.	Chemistry	Biochemistry
28.	Dr. Iman Adel Hadi Hamdoun Ramadan	Assistant Prof.	Chemistry	Biochemistry
29.	Dr. Khansa Shaker Nemat Allah Al-Nima	Assistant Prof.	Chemistry	Inorganic Chemistry
30.	Dr. Khaleda Muhammad Omar Daed Al-Tai	Assistant Prof.	Chemistry	Analytical Chemistry
31.	Dr. Amra Fares Muhammad Darwish Al-Sarraj	Assistant Prof.	Chemistry	Inorganic Chemistry
32.	Dr. Munira Youssef Raouf Al-Naqshbandi	Assistant Prof.	Chemistry	Organic Chemistry
33.	Dr. Laila Jumaa, star, Zaher star	Assistant Prof.	Chemistry	Inorganic Chemistry
34.	Dr. Farah Tariq Saeed Muhammad Al-Tikriti	Assistant Prof.	Chemistry	Inorganic Chemistry
35.	Dr. Omar Adel Sharif	Assistant Prof.	Chemistry	Physical Chemistry
36.	Dr. Safaa Abdel Aziz Taha Amin Al-Amin	Assistant Prof.	Chemistry	Biochemistry
37.	Dr. Saeed Abdel Qader Saeed Al-Bighamberly	Assistant Prof.	Chemistry	Organic Chemistry
38.	Dr. Saad Hassani, Sultan of Zarzis Allawi	Assistant Prof.	Chemistry	Analytical Chemistry
39.	Dr. Alaa Muhammad Tayyab Hussein Al Laila	Assistant Prof.	Chemistry	Physical Chemistry
40.	Dr. Fanar Muhammad Ismail Muhammad Al-Hayali	Assistant Prof.	Chemistry	Physical Chemistry
41.	Dr. Shaima Hashem Abdel Rahman Mustafa Al-Hilali	Assistant Prof.	Chemistry	Physical Chemistry
42.	Dr. Haifa Younis Hussein Darwish Al-Jubouri	Assistant Prof.	Chemistry	Organic Chemistry
43.	Dr. Atallah Muhammad Sheet Mahmoud Al-Sharifi	Assistant Prof.	Chemistry	Organic Chemistry
44.	Dr. Harith Muhammad Salman Abdul Ajili	Assistant Prof.	Chemistry	Organic Chemistry
45.	Dr. Amal Taha Yassin Ramla Al Jeraisy	Assistant Prof.	Chemistry	Biochemistry
46.	Dr. Asim Salman Abdullah Fathi Al-Boutani	Lecturer	Chemistry	Inorganic Chemistry
47.	Dr. Amira Muhammad Faraj Saleh Suleiman	Lecturer	Chemistry	Organic Chemistry
48.	Dr. Heba Amin Ibrahim Dhanoun Al-Alaf	Lecturer	Chemistry	Organic Chemistry



49.	Dr. Nada Bashir Sharif Hamid Al Nuaimi	Lecturer	Chemistry	Physical Chemistry
50.	Dr. Aladdin Muhammad Hani Darghouth	Lecturer	Chemistry	Physical Chemistry
51.	Dr. Samir Saadallah Azza Nasser Al-Hayali	Lecturer	Chemistry	Inorganic Chemistry
52.	Dr. Rafd Rabie Saadoun Muhammad Al-Taie	Lecturer	Chemistry	Biochemistry
53.	Dr. Rana Abdul Malik Suleiman Ali Al Qa'ba	Lecturer	Chemistry	Inorganic Chemistry
54.	Dr. Saleh Awaid Aboud Muhammad Al-Obaidi	Lecturer	Chemistry	Organic Chemistry
55.	Dr. Rana Hassan Ahmed, all of them	Lecturer	Chemistry	Physical Chemistry
56.	Dr. Firas Ahmed Thanoun Al-Lulji	Lecturer	Chemistry	Physical Chemistry
57.	Dr. Alaa Hussein Jalil Muhammad Al-Taei	Lecturer	Chemistry	Physical Chemistry
58.	Dr. Azzam Ahmed Muhammad Hudayd Al-Hadidi	Lecturer	Chemistry	Organic Chemistry
59.	Dr. Ihab Salem Ahmed replaced Al-Jubouri	Lecturer	Chemistry	Industrial Chemistry
60.	Dr. Shaima Sultan Abo Al-Mutlaq Al-Aqidi	Lecturer	Chemistry	Industrial Chemistry
61.	Dr. Ibrahim Muhammad Hayes Saleh Al-Khafaji	Lecturer	Chemistry	Physical Chemistry
62.	Dr. Maha Thanoun Hussein Abdullah Al-Obaidi	Lecturer	Chemistry	Analytical Chemistry
63.	Dr. Heba Farouk Muhammad Amin Yahya Al-Kateb	Lecturer	Chemistry	Inorganic Chemistry
64.	Dr. Congratulations to Walid Jihad Yacoub Qato	Lecturer	Chemistry	Organic Chemistry
65.	Dr. Heba Amin Ibrahim Dhanoun Al-Alaf	Lecturer	Chemistry	Organic Chemistry
66.	Dr. Ahmed Salem Mahmoud Muhammad Al-Taie	Lecturer	Chemistry	Inorganic Chemistry
67.	Dr. Heba Abdul Salam Muhammad Abdullah	Lecturer	Chemistry	Organic Chemistry
68.	Dr. Amna Farouk Sanallah Abdullah Al-Omari	Lecturer	Chemistry	Industrial Chemistry
69.	Dr. Ibrahim Muhammad Ahmed Al-Halima	Lecturer	computer Sciences	Network security
70.	Dr. Omar Ismail Muhammad Al-Dhanoun	Lecturer	Chemistry	Biochemistry
71.	Dr. Hanan Hamid Ahmed Suleiman Al-Ali	Lecturer	Chemistry	Analytical Chemistry
72.	Neaam Muhammad Tayyab Hussein Al Laila	Assistant Prof.	Chemistry	Industrial Chemistry
73.	Wael Abdul Qader Abdullah Abdul Qader Al Qazzaz	Lecturer	Chemistry	Analytical Chemistry
74.	Amal Ghazi Abdel Rahawi Al-Sarraj	Lecturer	Chemistry	Physical Chemistry
75.	Inaam Ahmed Hamdoun Al-Gargis	Assistant Prof.	Chemistry	Analytical Chemistry



76.	Israa Ali Hassan Ali Haj Hussein	Assistant Prof.	Chemistry	Inorganic Chemistry
77.	Kawakeb of Abdul Aziz Muhammad Majeed Al-Tai	Lecturer	Chemistry	Inorganic Chemistry
78.	Dr. Zeina Talal Shaker Mahmoud Bakr	Lecturer	Chemistry	Analytical Chemistry
79.	Sariya Walid Zidan Thanoun Al-Taie	Lecturer	Chemistry	Inorganic Chemistry
80.	Dr. Israa Adnan Saeed Ahmed Al-Shukarji	Lecturer	Chemistry	Inorganic Chemistry
81.	Dr. Asmaa Natiq Abdul Qadir Mahmoud Al Arhaim	Lecturer	Chemistry	Analytical Chemistry
82.	Mawada Muhammad Suleiman Hassan Al-Ghabsha	Lecturer	Computer Science	Artificial intelligence
83.	Dr. Saba Mumtaz Saleh Taha Al-Asali	Lecturer	Chemistry	Inorganic Chemistry
84.	Noha Abdel Qader Sharif Omar Al Talib	Assistant Prof.	Chemistry	Biochemistry
85.	Dr. Afia Muayyed Younis Mustafa Al-Dabbagh	Lecturer	Chemistry	Inorganic Chemistry
86.	Dr. Basemah Ahmed Abdel Hadi Salim Al-Taha	Assistant Prof.	Chemistry	Analytical Chemistry
87.	Mafaz Khaled Saeed Tawfiq Al-Sayegh	Lecturer	Chemistry	Biochemistry
88.	Dr. Lama Taha Daoud Sharif Al-Bakr	Lecturer	Chemistry	Analytical Chemistry
89.	Dr. Naseem Maysar Abdel Hamid Al-Hamdani	Lecturer	Chemistry	Analytical Chemistry
90.	Dr. Safa Abdel Aleem Ahmed Younis Zakaria	Lecturer	Chemistry	Analytical Chemistry
91.	Dr. Anfal Raad Mahmoud Ahmed Al-Barhawi	Lecturer	Chemistry	Physical Chemistry
92.	Sana Abdel-Ilah Ahmed Girgis Abdel-Mawjoud	Lecturer	Chemistry	Biochemistry
93.	Dr. Saba Hazem Siddiq Hassan Al-Sarati	Lecturer	Chemistry	Synthetic Chemistry
94.	Dr. Fayhaa Kamal Hussein Ali Al-Jarrah	Lecturer	Chemistry	Inorganic Chemistry
95.	Dr. Raghad Abdel Mawjoud Muhammad Al-Abadi	Lecturer	Chemistry	Biochemistry
96.	Dr. Lana Abdel Hamid Rashid	Lecturer	Chemistry	Inorganic Chemistry
97.	Dr. Enas Samir Thanoun Mahmoud Mulla Hamo	Lecturer	Chemistry	Analytical Chemistry
98.	Shahla Ahmed Younis Abdel-Jamas	Lecturer	Chemistry	Organic Chemistry
99.	Shaima Younis Ibrahim Dhanoun Al-Taie	Lecturer	Chemistry	Organic Chemistry
100.	Dr. Muhammad Adnan Muhammad Ali Al-Qaba	Lecturer	Chemistry	Organic Chemistry
101.	Khaled Nazir Hamid Abdullah Al-Sarraf	assistant Lecturer	Chemistry	Inorganic Chemistry



102.	Dr. Muhammad Qahtan Hassan Ali Siala	Lecturer	Chemistry	Physical Chemistry
103.	Amna Adnan Muhammad Shihab Al Fares	assistant Lecturer	Chemistry	Inorganic Chemistry
104.	Iman Bahjat Bashir Tawfiq Mulla Jarjis	assistant Lecturer	Chemistry	Analytical Chemistry
105.	Sahba Younis Majeed Abdul Ghani Al-Taie	assistant Lecturer	Chemistry	Inorganic Chemistry

### **The most important sources of information about the program**

Student guide for central admission counted by the Ministry of Higher Education and Scientific Research for more information.

#### **job description and courses:**

<https://bityl.co/P7V3>

#### **Department lectures on the website:**

Department lectures <https://rb.gy/8j3a70> ✓

**College Guide:** <https://bityl.co/P7TV>

**CV of teachers:** <https://cv.uomosul.edu.iq/list/science/chemistry> ✓

**Members of the College Council :** <https://shorturl.at/eBT27>

**Links to faculty research on the college website :**

<https://cv.uomosul.edu.iq/list/science/chemistry>

**Links to graduation projects for department students:**

<https://shorturl.at/oHLU0>

**Subjects and units :**

<https://shorturl.at/kuz06>

**Continuing education courses:**





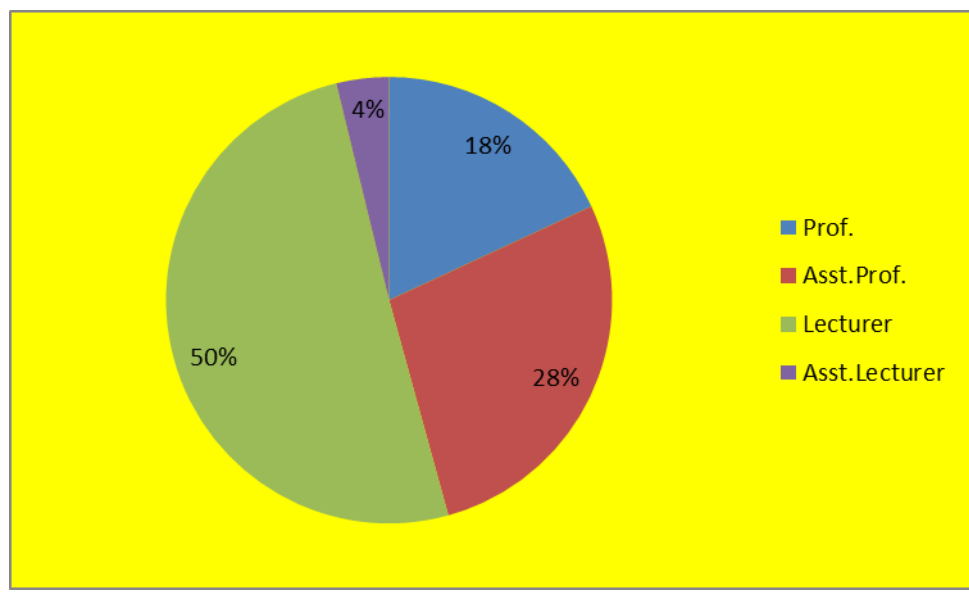
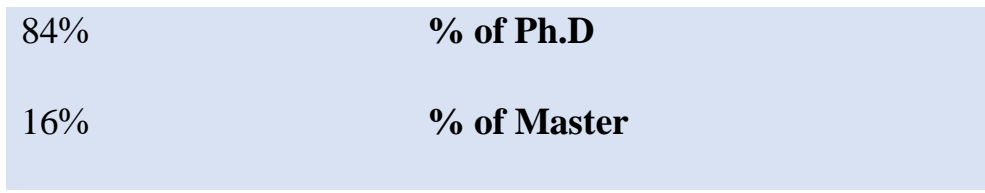
[https://uomosul.edu.iq/public/files/datafolder\\_3067/20211103\\_100359\\_230.docx](https://uomosul.edu.iq/public/files/datafolder_3067/20211103_100359_230.docx)

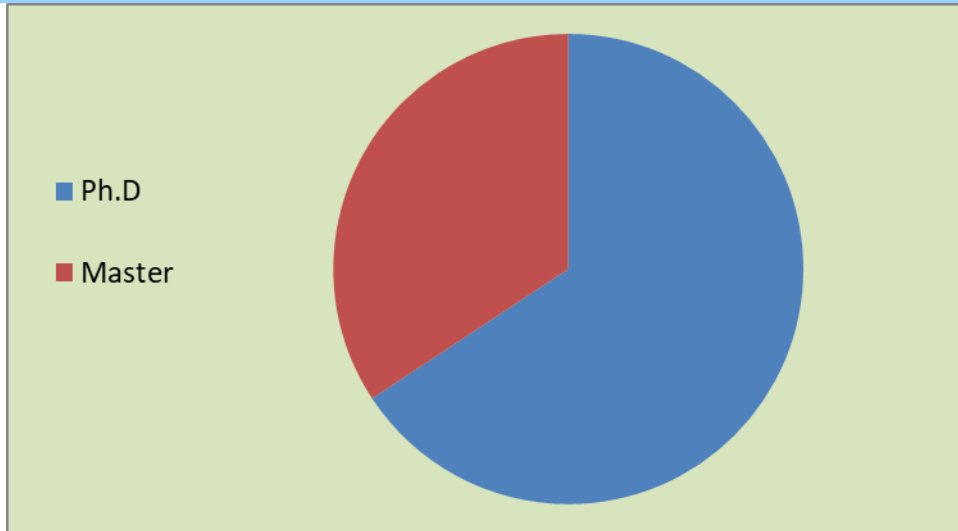
Lectures: <https://shorturl.at/iGJTV>

Class schedules: <https://uomosul.edu.iq/pages/ar/science/42594>

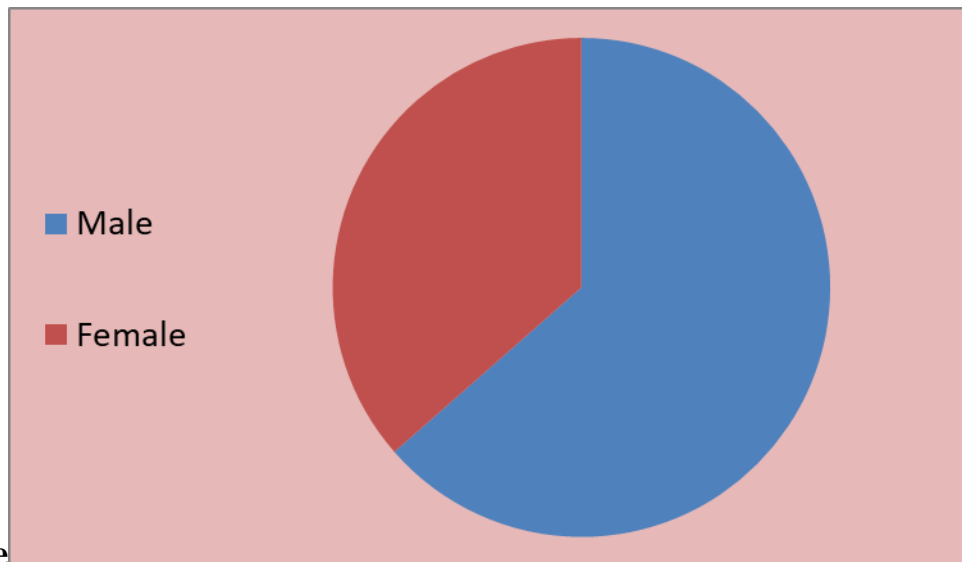
• **Description of the faculty members in the department:**

female	Male	Scientific degree				Coalification		Staff
		Asst. lecturer	Lecturer	Asst.Prof.	Prof.	Master	Ph.D	
69	36	4	53	29	19	17	88	105





**Faculty members by academic**



degree

**Faculty members by gender**



•Average hours of additional teaching load for faculty members:

Number of load hours	The number of quorum hours specified	The scientific title
16	6-4	Prof.
13	8	Asst. Prof.
15	10	Lecturer
17	12	Asst. Lecturer

•Employees and administrators according to academic qualification

Number of contract employees	Number of permanent employees	Academic qualification of employees z
	13	Bachelor's
	3	Technical Diploma
	0	Preparatory school
	1	Medium
2	1	Primary



- **Ratio of students to teachers:**

Number of Chemistry Department students in 2023-2024 (1012) for the four stages

Preparation of teaching staff in the Chemistry Department for the year 2023-2024 (105) teaching staff

Ratio of students to teachers = 0.1

A summary of the most important work at the quality assurance level:

- **Quality field:**

- 1- Writing and implementing boards related to the department's vision, mission, and goals.
- 2- Preparing questionnaires for students to evaluate the teaching.
- 3- Follow up on the implementation of the department's self-evaluation standards
- 4- Participation in many seminars, workshops and conferences related to quality within the country.
- 5- Holding workshops aimed at improving quality in the department.
- 6- Holding and attending scientific courses on performance evaluation for department members.
- 7- Prepare a plan on what was done before starting the department's self-evaluation process.
- 8- Working on coding the new curricula and exam questions on a regular basis.
- 9- Establishing special mechanisms for laboratory quality.



• **Field of university performance:**

- 1- Completing the department's annual calendar file.
- 2- Conducting evaluations of teachers as well as evaluations of employees.
- 3- Archiving (automation) of information: electronic documentation of information in the department's Quality Assurance Committee.
- 4- Completing the national evaluation form for scientific departments.
- 5- Completing and writing the department's self-evaluation report according to the standards of the accredited ABET accreditation program
- 6- Writing a report on conformity with the standards of the accredited ABET accreditation program.

**Infrastructure**

<b>Ratio of students to hall area</b>	<b>Area m<sup>2</sup></b>	<b>no</b>	<b>Buildings</b>	<b>No.</b>
<b>0.86</b>	<b>610</b>	<b>10</b>	<b>Teaching halls</b>	<b>.1</b>
<b>4.0</b>	<b>180</b>	<b>2</b>	<b>Event halls</b>	<b>.2</b>
	<b>220</b>	<b>1</b>	<b>Central laboratory</b>	<b>.3</b>
<b>0.3</b>	<b>1317</b>	<b>31</b>	<b>Laboratories</b>	<b>.4</b>
	<b>0</b>	<b>0</b>	<b>Technical workshops</b>	<b>.5</b>
	<b>950</b>	<b>54</b>	<b>Faculty offices</b>	<b>.6</b>
	<b>18.5</b>	<b>2</b>	<b>Internet units</b>	<b>.7</b>
	<b>60</b>	<b>1</b>	<b>Clubs, sports stadiums</b>	<b>.8</b>
	<b>1800</b>	<b>4</b>	<b>Parking lot</b>	<b>.9</b>
	<b>1200</b>	<b>4</b>	<b>Gardens and squares</b>	<b>.10</b>
	<b>210</b>	<b>1</b>	<b>the library</b>	<b>.11</b>
	<b>270</b>	<b>9</b>	<b>Bathrooms</b>	<b>.12</b>