

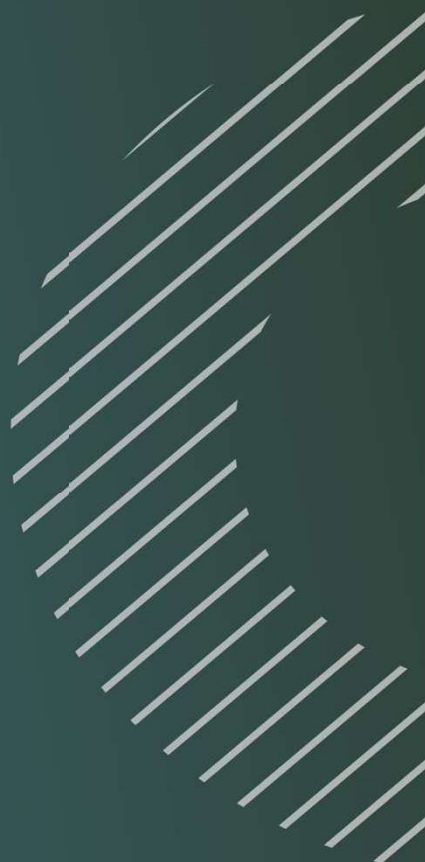


جامعة أم القرى
UMM AL-QURA UNIVERSITY

Chemistry Department Guide

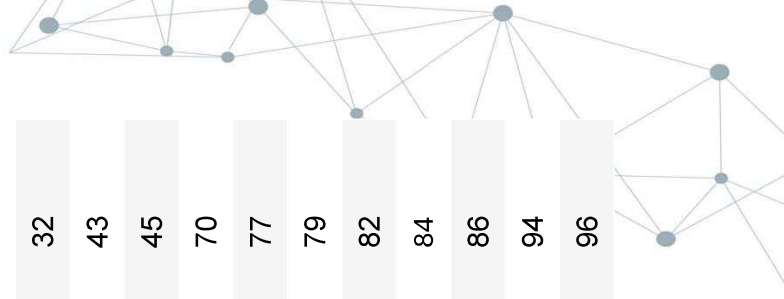


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Chemistry Department Guide

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Message from the Head of Department

Chemistry is a fundamental pillar for understanding the composition of matter and its interactions, from the atomic and molecular levels to industrial and environmental applications. Therefore, the Department of Chemistry strives to provide an inspiring academic environment that supports systematic learning, fosters analytical thinking, and bridges the gap between scientific knowledge and practical application.

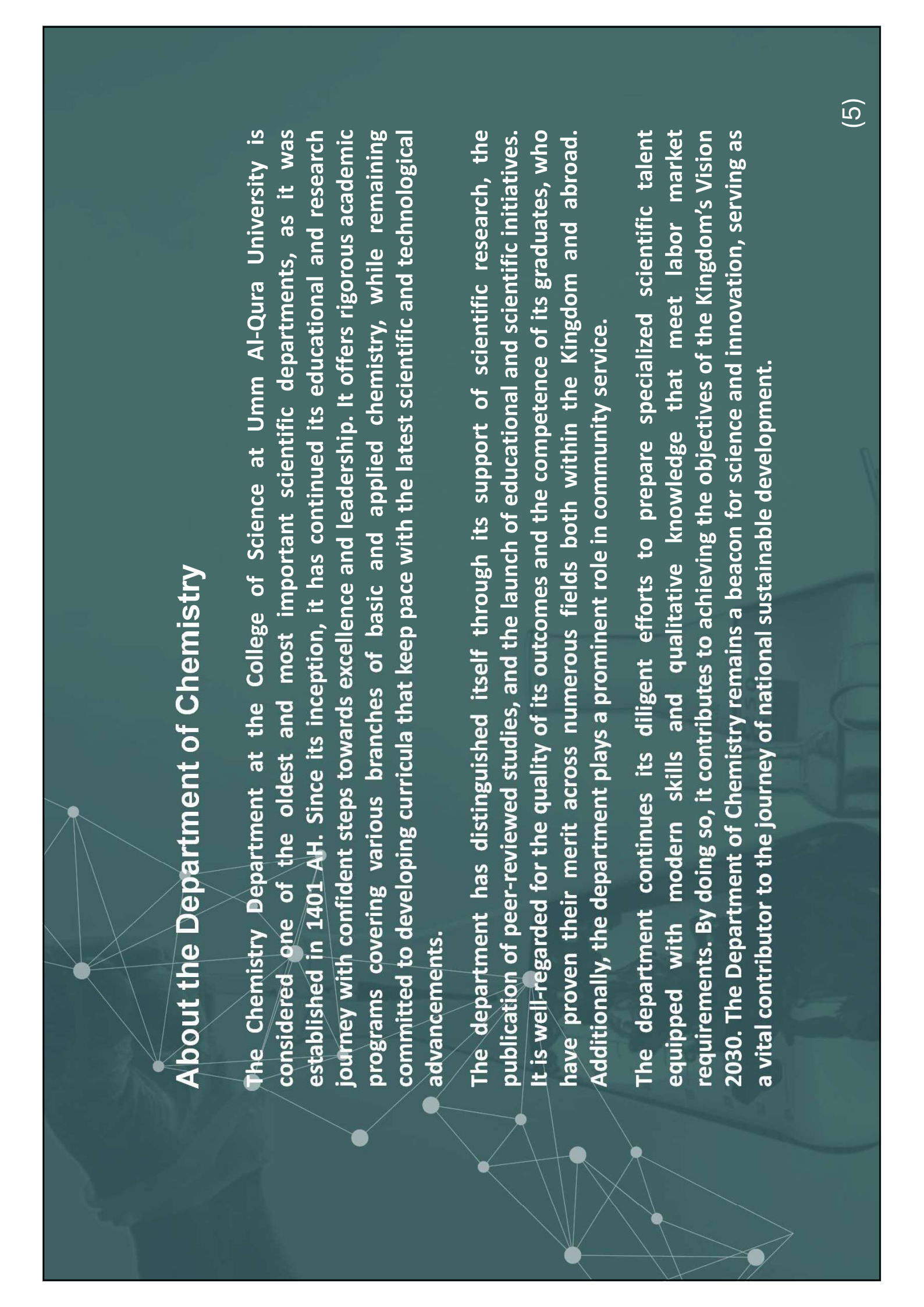
The Department is committed to offering integrated academic programs built on a solid scientific foundation that aligns with the professional standards accredited by the National Center for Academic Accreditation and Evaluation. These programs cover the four main branches of chemistry: Organic, Inorganic, Analytical, and Physical. The curricula are continuously updated to enhance students' scientific depth through advanced specialized tracks, while also providing them with the opportunity to choose from newly introduced tracks that suit their personal interests and academic goals.

The Department offers undergraduate programs in Chemistry (General, and Quality Control & Chemical Analysis, Industrial Chemistry, and Polymer Chemistry tracks). At the graduate level, we offer Master's programs in Chemistry and Quality Control & Chemical Analysis. Our teaching methodology balances theoretical grounding with practical laboratory training, focusing on developing research, analysis, and modern technological skills. Furthermore, we place great importance on involving students in research projects and scientific activities to strengthen their innovation and critical thinking abilities.

Our goal is to prepare graduates who are scientifically and professionally qualified, capable of contributing to various fields including education, chemical industries, health and environmental sectors, and supporting national development requirements.

We believe that investing in chemical sciences is a fundamental driver of progress. We are dedicated to ensuring our graduates are active contributors to community service and the achievement of sustainable development.

Dr. Abdulaziz Musaad Almohyawi
Head Department of Chemistry



About the Department of Chemistry

The Chemistry Department at the College of Science at Umm Al-Qura University is considered one of the oldest and most important scientific departments, as it was established in 1401 AH. Since its inception, it has continued its educational and research journey with confident steps towards excellence and leadership. It offers rigorous academic programs covering various branches of basic and applied chemistry, while remaining committed to developing curricula that keep pace with the latest scientific and technological advancements.

The department has distinguished itself through its support of scientific research, the publication of peer-reviewed studies, and the launch of educational and scientific initiatives. It is well-regarded for the quality of its outcomes and the competence of its graduates, who have proven their merit across numerous fields both within the Kingdom and abroad. Additionally, the department plays a prominent role in community service.

The department continues its diligent efforts to prepare specialized scientific talent equipped with modern skills and qualitative knowledge that meet labor market requirements. By doing so, it contributes to achieving the objectives of the Kingdom's Vision 2030. The Department of Chemistry remains a beacon for science and innovation, serving as a vital contributor to the journey of national sustainable development.

Vision, Mission, and Strategic Goals





Vision

To achieve leadership and excellence in academic education and scientific research in the field of chemistry and its applications, in line with Saudi Vision 2030 and Umm Al-Qura University's Strategic Plan 2027, while committing to community service and environmental preservation.

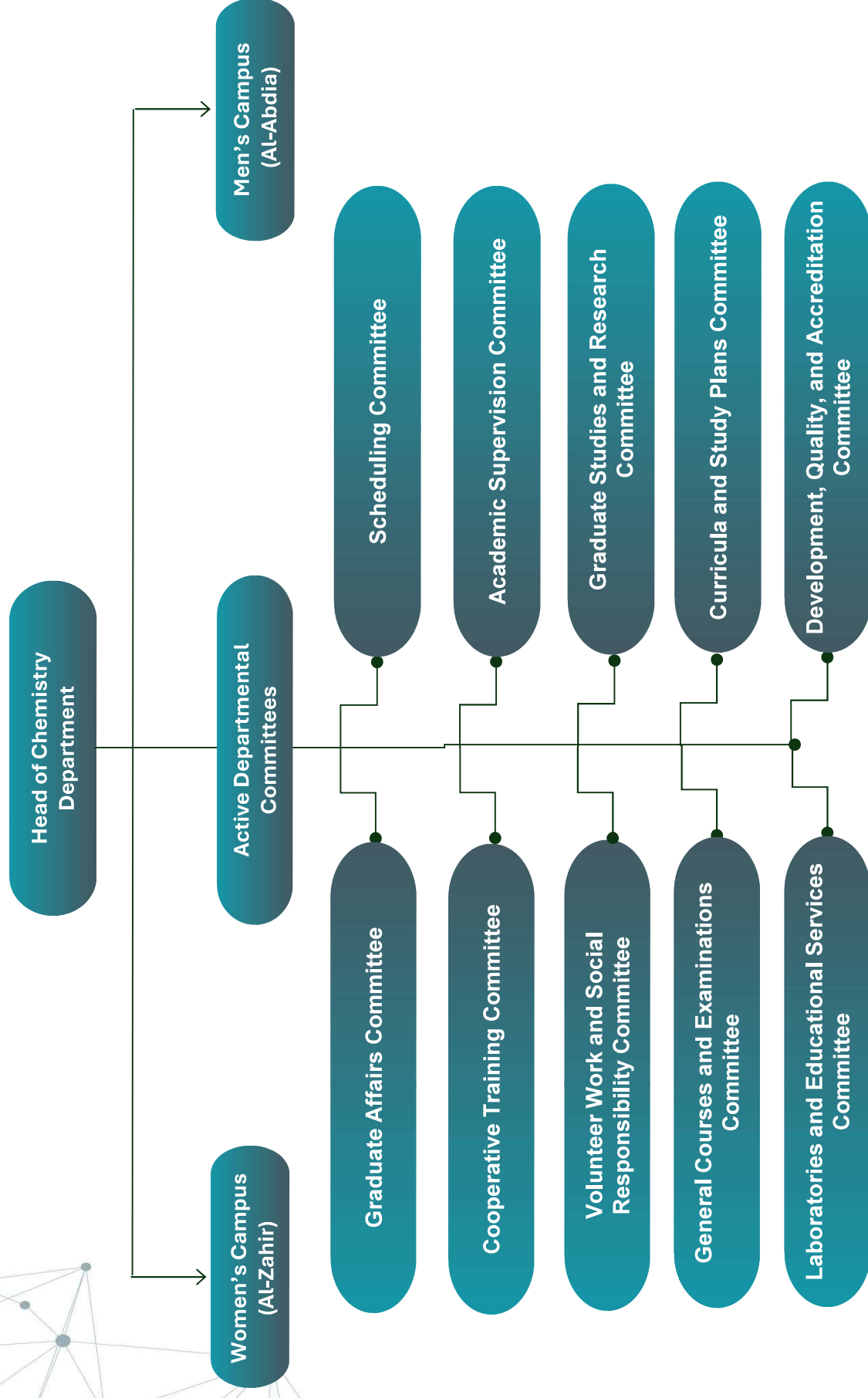
Mission

To prepare qualified scientific professionals in the field of chemistry who meet labor market requirements and contribute effectively to solving the scientific and industrial challenges facing development plans in the Kingdom.

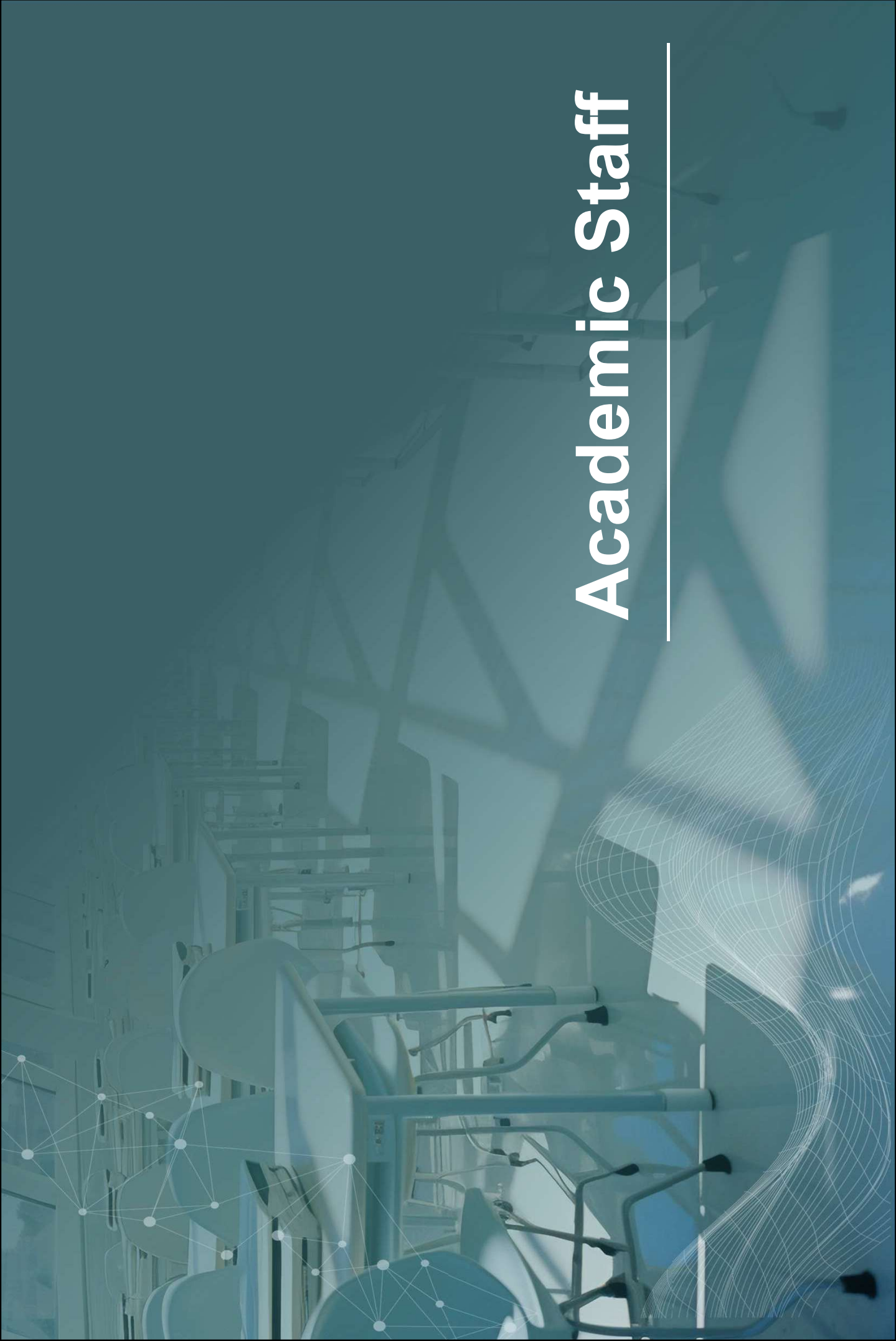
Goals

- Graduating qualified national personnel equipped with the necessary skills to serve society, the industrial sector, and national development programs.
- Advancing academic and applied scientific research in the various fields of chemical sciences.
- Promoting a distinguished scientific culture through seminars and providing scientific consultations to support the knowledge economy.
- Providing a high-quality educational environment that fosters innovation and adheres to academic accreditation standards.

Organizational and Administrative Structure



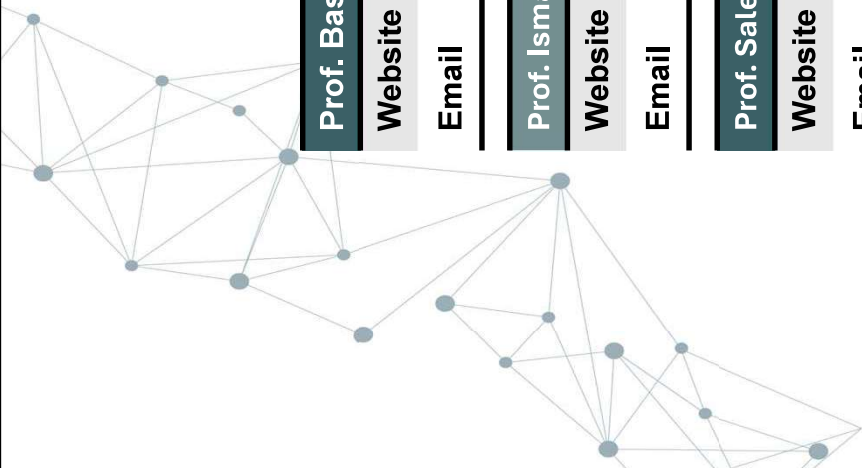
Academic Staff



The department boasts a distinguished College of academic and research leaders. They fulfill their roles in teaching, supervising, and academic advising, in addition to administrative duties on internal and external committees.



College Members by Academic Rank



Academic Staff

(Organic Chemistry Division)

Prof. Basim Hussain Mustafa Asghar Professor of Physical Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/bhasghar>

Email

bhasghar@uqu.edu.sa

Prof. Ismail Ibrahim Mohammed Al-Thagafi

Professor of Physical Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/iithagafi>

Email

iithagafi@uqu.edu.sa

Prof. Saleh Abdelmgeed Ahmed

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/saahmed>

Email

saahmed@uqu.edu.sa

Prof. Meshari Ahmed Abdulrhman Al-Sharif

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/maasharif/>

Email

maasharif@uqu.edu.sa

Prof. Rami Jameel Hassan Obaid

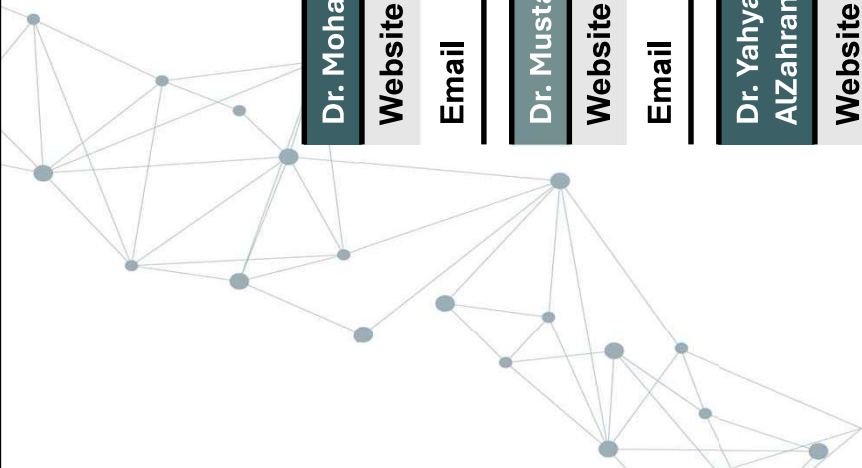
Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/rjobaid>

Email

rjobaid@uqu.edu.sa



Academic Staff

(Organic Chemistry Division)

Dr. Mohammed Bakr Abdullah Hawsawi

Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/mbhawsawi>

Email

mbhawsawi@uqu.edu.sa

Dr. Mustafa Salem R Alluhaibi

Assistant Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/msluhaibi>

Email

msluhaibi@uqu.edu.sa

**Dr. Yahya Abdulwahab Obaed
AlZahrany**

Assistant Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/yaozahrany>

Email

yaozahrany@uqu.edu.sa

Dr. Abdulaziz Musaad A Almohyawi

Assistant Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/ammohyawi>

Email

ammohyawi@uqu.edu.sa

Mr. Mohammed Abdullah Mohammed Mahdaly

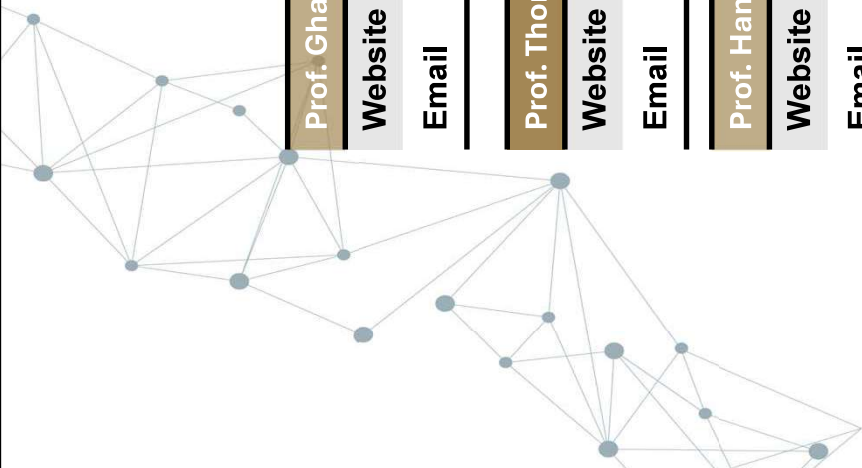
Teaching Assistant, Chemistry Department - College of Science

Website

<https://uqu.edu.sa/en/Profile/mamahdaly>

Email

mamahdaly@uqu.edu.sa



Academic Staff

(Organic Chemistry Division)

Prof. Ghada Saleh Saleh Masarit

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/gsmasaret>

Email

gsmasaret@uqu.edu.sa

Prof. Thoraya Abdelreheem Farghaly Mohamed

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/tamohamed>

Email

tamohamed@uqu.edu.sa

Prof. Hanadi Ahmed Abdulfattah Katouah

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/hakatouah>

Email

hakatouah@uqu.edu.sa

Prof. Ameerah Mohammed Safr
Alsolieme

Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/amsolieme>

Email

amsolieme@uqu.edu.sa

Prof. Abrar Ahmad Ali Bayazeed

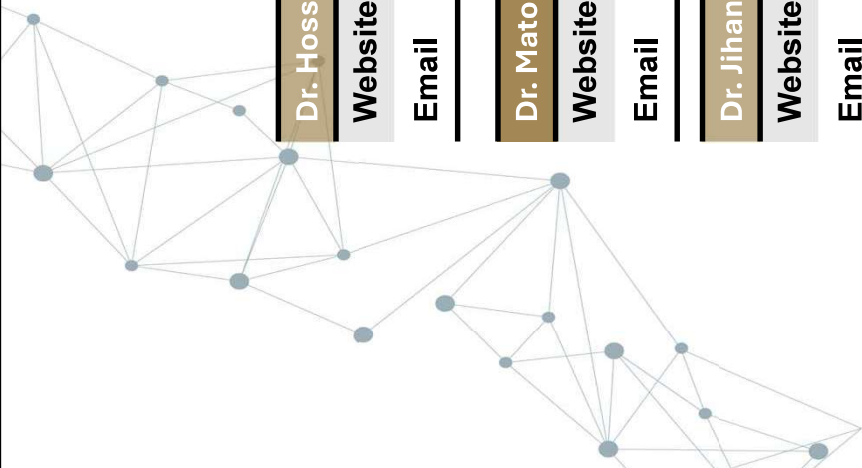
Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/aabayazeed>

Email

aabayazeed@uqu.edu.sa



Academic Staff

(Organic Chemistry Division)

Dr. Hossa Fahad Nosair Alshareef Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/hfshareef>

Email

hfshareef@uqu.edu.sa

Dr. Matokah Mohammed Alauddin Abualnaja

Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/mmabualnaja>

Email

mmabualnaja@uqu.edu.sa

Dr. Jihan Bahaaldin Mohmedali Qurban

Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/jbqurban>

Email

jbqurban@uqu.edu.sa

Dr. Dina Faisal Abdalftah Katoaah

Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/dfkatoaah>

Email

dfkatoaah@uqu.edu.sa

Dr. Moneera Mohammad Saqer Al-Rooqi

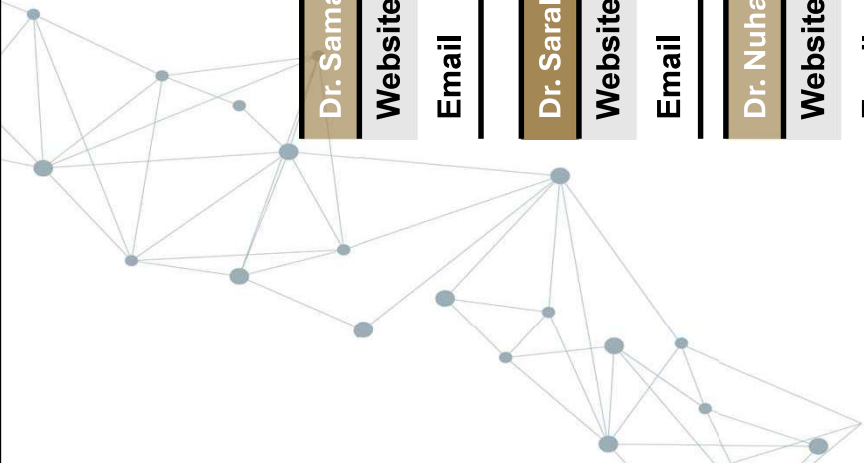
Associate Professor of Organic Chemistry

Website

<https://uqu.edu.sa/en/Profile/mmrooqi>

Email

mmrooqi@uqu.edu.sa



Academic Staff

(Organic Chemistry Division)

Dr. Samar Jameel Alyan Almehmadi Associate Professor of Organic Chemistry

Website <https://uqu.edu.sa/en/Profile/sgmehmadi>

Email sgmehmadi@uqu.edu.sa

Dr. Sarah Abdulhalim Maher Felemban Assistant Professor of Organic Chemistry

Website <https://uqu.edu.sa/en/Profile/safelemban>

Email safelemban@uqu.edu.sa

Dr. Nuha Matouq Ali Halawani Assistant Professor of Organic Chemistry

Website <https://uqu.edu.sa/en/Profile/nmhalawani>

Email nmhalawani@uqu.edu.sa

Dr. Ghadeer Rashad Saud Ashour Assistant Professor of Organic Chemistry

Website <https://uqu.edu.sa/en/Profile/grashour>

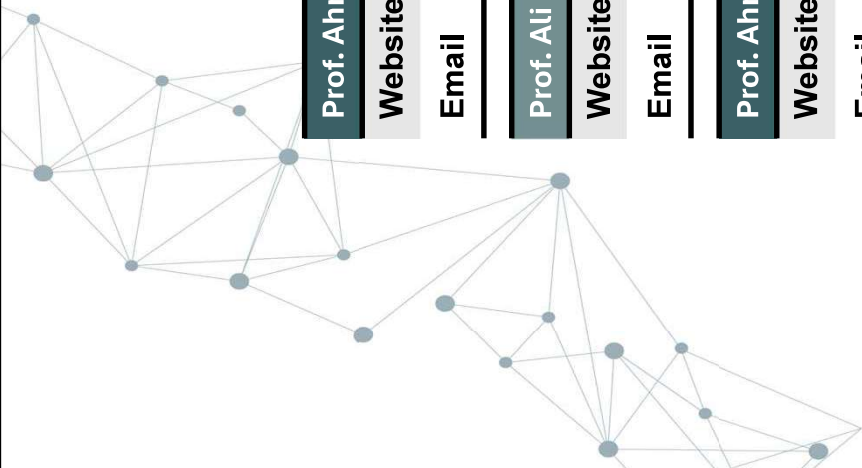
Email grashour@uqu.edu.sa

Ms. Eman Mohammed Mesfir Alluhaybi

Lecturer, Chemistry Department - College of Science

Website <https://uqu.edu.sa/en/Profile/emluhaybi>

Email emluhaybi@uqu.edu.sa



Academic Staff

(Analytical Chemistry Division)

Prof. Ahmed Mohammed Ahmed Hameed

Professor of Analytical Chemistry

Website

<https://uqu.edu.sa/en/Profile/amhameed>

Email

amhameed@uqu.edu.sa

Prof. Ali Abdu H Sayqal

Professor of Analytical Chemistry

Website

<https://uqu.edu.sa/en/Profile/aasayqal>

Email

aasayqal@uqu.edu.sa

Prof. Ahmed Mohammed A Al-Harbi

Professor of Analytical Chemistry

Website

<https://uqu.edu.sa/en/Profile/amaharbi>

Email

amaharbi@uqu.edu.sa

Dr. Hussain Hassan Ahmed Alessa

Associate Professor of Analytical Chemistry

Website

<https://uqu.edu.sa/en/Profile/hhessa>

Email

hhessa@uqu.edu.sa

Dr. Jalal Thamer Husein Althakafy

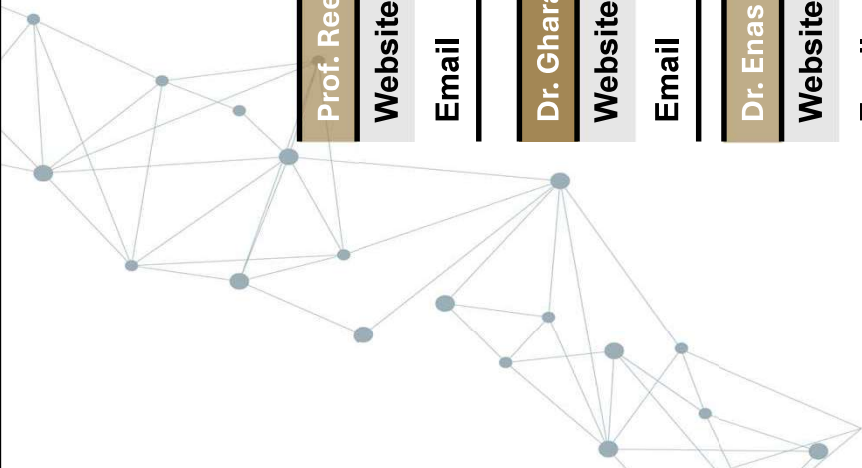
Assistant Professor of Analytical Chemistry

Website

<https://uqu.edu.sa/en/Profile/jtthakafy>

Email

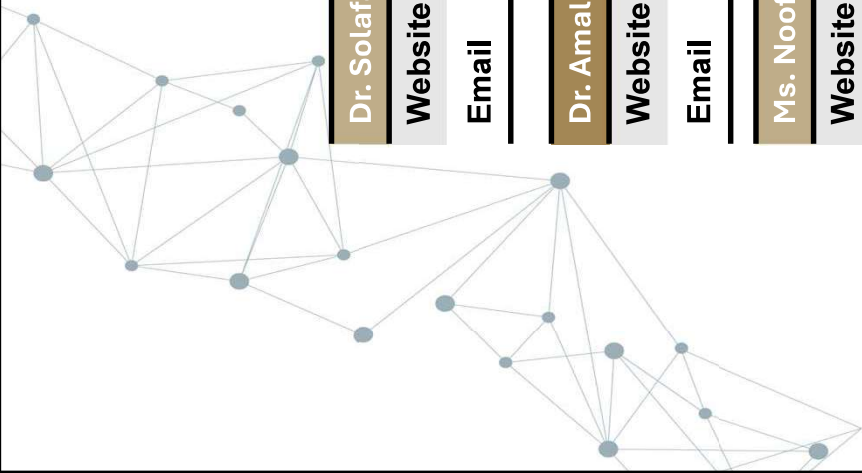
jtthakafy@uqu.edu.sa



Academic Staff

(Analytical Chemistry Division)

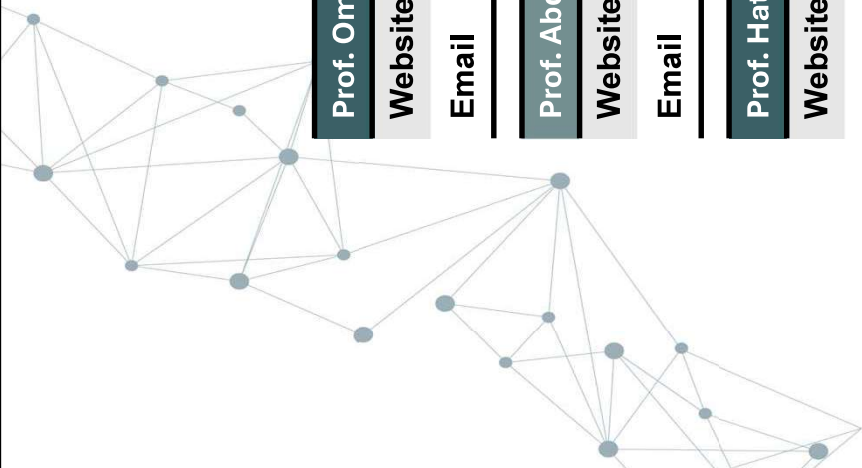
Prof. Reem Kamal Jafar Shah	Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/rkshah
Email	rkshah@uqu.edu.sa
Dr. Gharam Ibrahim Mohammed	Associate Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/giabulkair
Email	giabulkair@uqu.edu.sa
Dr. Enas Hussain Hassan Aljuhani	Associate Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/ehgohani
Email	ehgohani@uqu.edu.sa
Dr. Manal Aboubakker Mohammed Khoj	Associate Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/makhoj
Email	makhoj@uqu.edu.sa
Dr. Zakiya Dhaifallah Mohammed Almallah	Assistant Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/zdmallah
Email	zdmallah@uqu.edu.sa



Academic Staff

(Analytical Chemistry Division)

Dr. Solafa Jamal Mohammed Nassar	Assistant Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/sjnassar
Email	snassar@uqu.edu.sa
Dr. Amal Saud Mohammed Alharthi	Assistant Professor of Analytical Chemistry
Website	https://uqu.edu.sa/en/Profile/asmharthi
Email	asmharthi@uqu.edu.sa
Ms. Noof Edan S Alzahrani	Lecturer, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/nezahrani
Email	wssaidi@uqu.edu.sa
Ms. Weaam Esam Saleh Hakami	Teaching Assistant, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/wehakami
Email	wehakami@uqu.edu.sa



Academic Staff

(Physical Chemistry Division)

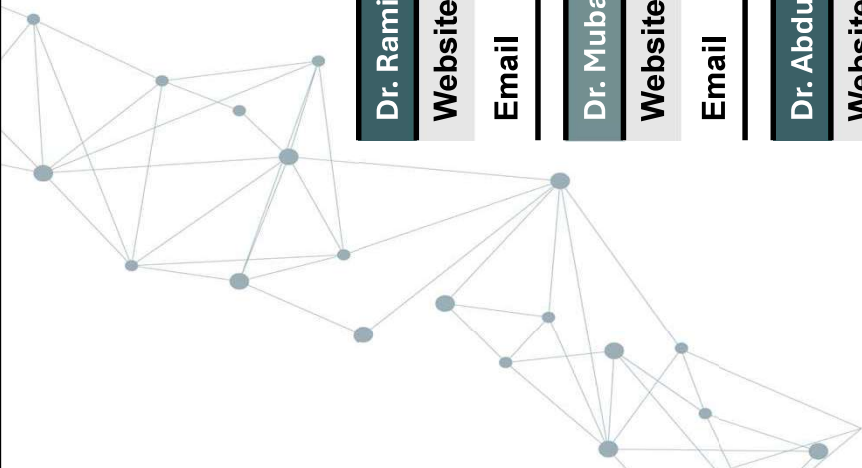
Prof. Omar Abdullah Hussain Al-Hazazi	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/oahazazi
Email	oahazazi@uqu.edu.sa

Prof. Abdelrahman Salah Hamed Khder	Professor of Physical Chemistry
Website	https://uqu.edu.sa/askhder
Email	askhder@uqu.edu.sa

Prof. Hatem Muhmad Muhmad Altass	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/hutass
Email	hutass@uqu.edu.sa

Prof. Moataz Hashem Soliman Morad	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/mhmorad
Email	mhmorad@uqu.edu.sa

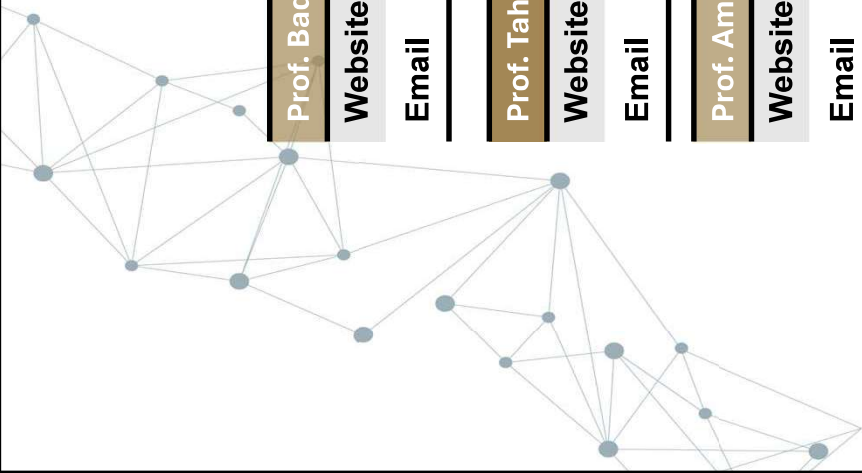
Prof. Jaber Hamad Ali Al-Salem Al-Fahemi	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/jhfahemi
Email	jhfahemi@uqu.edu.sa



Academic Staff

(Physical Chemistry Division)

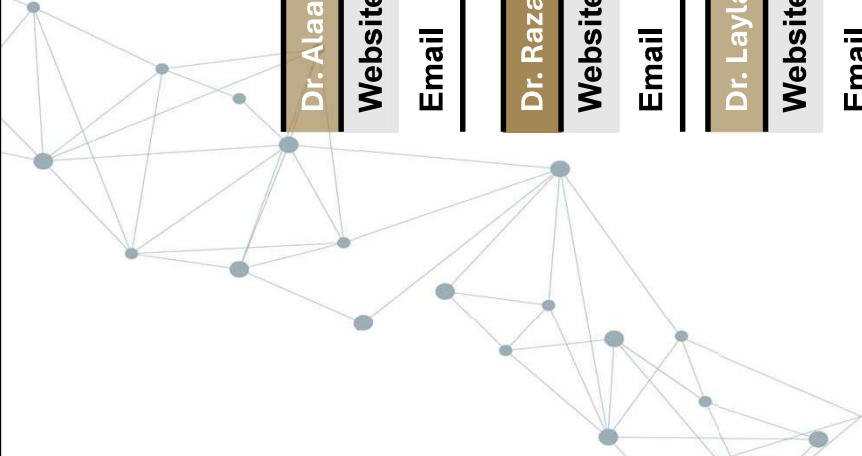
Dr. Rami Adel Mohammed Pasha		Associate Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/rapasha	
Email	rapasha@uqu.edu.sa	
Dr. Mubark Mayouf Y Al-Shareef		Associate Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/mmshareef	
Email	maasharif@uqu.edu.sa	
Dr. Abdullah Jamaan Ali Almalki		Assistant Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/ajmalki	
Email	ajmalki@uqu.edu.sa	



Academic Staff

(Physical Chemistry Division)

Prof. Badriah Ali Mohammed Aljahdali	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/bajahdali
Email	bajahdali@uqu.edu.sa
Prof. Tahani Mohammed Eidah Bawazeer	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/tmbawazeer
Email	tmbawazeer@uqu.edu.sa
Prof. Ameena Mohsen Naser Albonayan	Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/ambonayan
Email	ambonayan@uqu.edu.sa
Dr. Arwa Wasel Hamed Alharbi	Associate Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/awharbi
Email	awharbi@uqu.edu.sa
Dr. Hanan Kharman Mahammad Alzahrani	Associate Professor of Physical Chemistry
Website	https://uqu.edu.sa/en/Profile/hkzahrani
Email	hkzahrani@uqu.edu.sa



Academic Staff

(Physical Chemistry Division)

Dr. Alaa Mahdi Ahmed Munshi	Associate Professor of Physical Chemistry
-----------------------------	---

Website

https://uqu.edu.sa/en/Profile/amamunshi

Email

amamunshi@uqu.edu.sa
--

Dr. Razan Mohammadjaber M Snari	Associate Professor of Physical Chemistry
---------------------------------	---

Website

https://uqu.edu.sa/en/Profile/rmsnari

Email

rmsnari@uqu.edu.sa
--

Dr. Layla Saeed Abdulrahman Almazroai	Associate Professor of Physical Chemistry
---------------------------------------	---

Website

https://uqu.edu.sa/en/Profile/lsmazroai

Email

lsmazroai@uqu.edu.sa
--

Dr. Alia Abdulaziz Adnan Alfai	Associate Professor of Physical Chemistry
--------------------------------	---

Website

https://uqu.edu.sa/en/Profile/aaaalfi

Email

aaaalfi@uqu.edu.sa
--

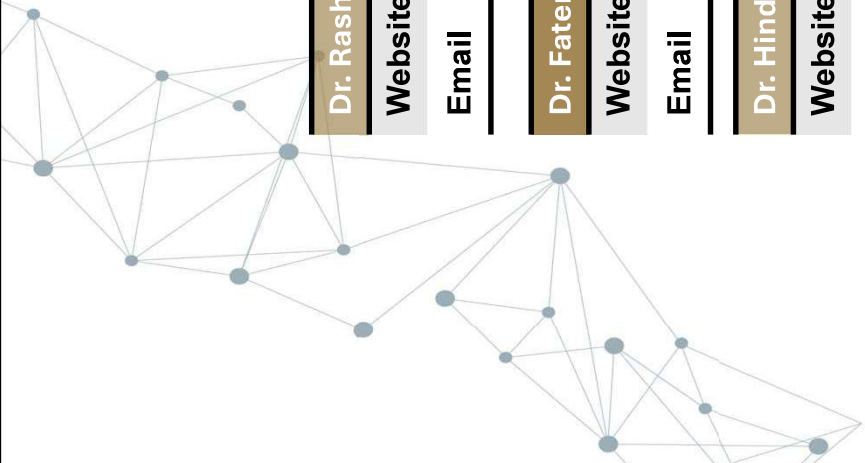
Dr. Hatoon Hashim Talab Alsharif	Associate Professor of Physical Chemistry
----------------------------------	---

Website

https://uqu.edu.sa/en/Profile/hhshareef

Email

hhshareef@uqu.edu.sa
--



Academic Staff

(Physical Chemistry Division)

Dr. Rasha Nezar Felaly Felaly Assistant Professor of Physical Chemistry

Website <https://uqu.edu.sa/en/Profile/rnfelali>

Email rnfelali@uqu.edu.sa

Dr. Faten Abdul-Mohsen Abdullah Aljiffrey Assistant Professor of Physical Chemistry

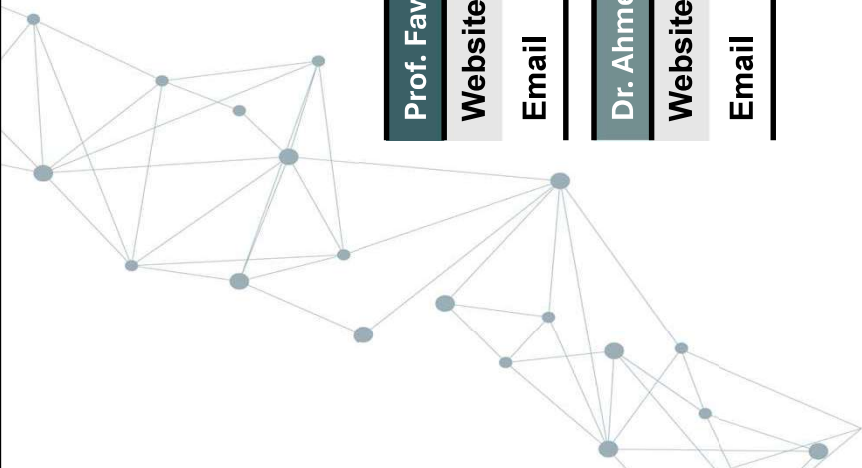
Website <https://uqu.edu.sa/en/Profile/faljiffrey>

Email faljiffrey@uqu.edu.sa

Dr. Hind Aati Atia Almalki Assistant Professor of Physical Chemistry

Website <https://uqu.edu.sa/en/Profile/haamalki>

Email haamalki@uqu.edu.sa



Academic Staff

(Inorganic Chemistry Division)

Prof. Fawaz Ahmed Amer Saad

Professor of Inorganic Chemistry

Website

<https://uqu.edu.sa/en/Profile/fasaad>

Email

fasaad@uqu.edu.sa

Dr. Ahmed Abdulrahim Olayan Aloufi

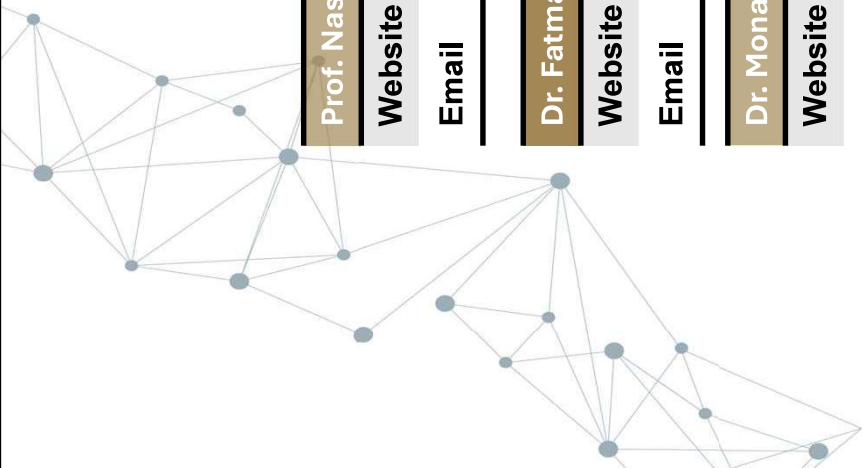
Assistant Professor, Chemistry Department - College of Science

Website

<https://uqu.edu.sa/en/Profile/aaoufi>

Email

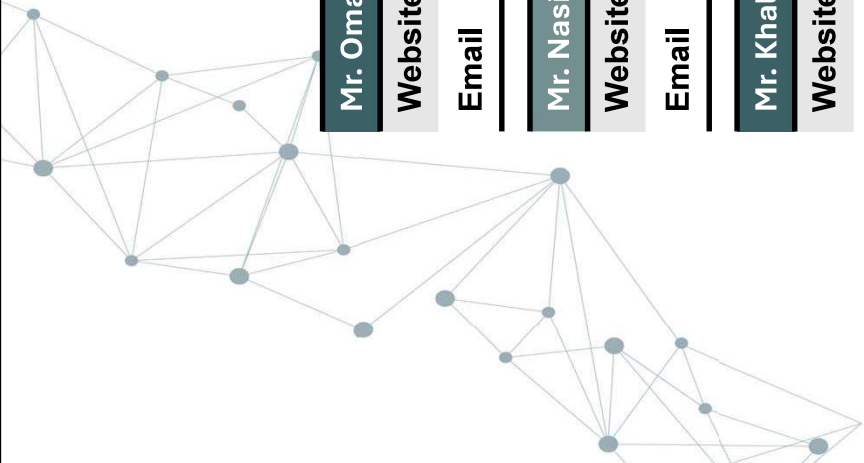
aaoufi@uqu.edu.sa



Academic Staff

(Inorganic Chemistry Division)

Prof. Nashwa Mahmoud Elmetwaly Mohamed	Professor of Inorganic Chemistry
Website	https://uqu.edu.sa/en/Profile/nmmohamed
Email	nmmohamed@uqu.edu.sa
Dr. Fatmah Mohammad A Alkhatib	Associate Professor of Inorganic Chemistry
Website	https://uqu.edu.sa/en/Profile/fmkhatib
Email	fmkhatib@uqu.edu.sa
Dr. Mona Abdulmuti Mohammed Alhasani	Associate Professor of Inorganic Chemistry
Website	https://uqu.edu.sa/en/Profile/mamhasani
Email	mamhasani@uqu.edu.sa
Dr. Khadeega Mustafa Abdalrhman Takroni	Assistant Professor of Inorganic Chemistry
Website	https://uqu.edu.sa/en/Profile/kmtakroni
Email	kmtakroni@uqu.edu.sa



Academic Staff

(Teaching Assistants)

Mr. Omar Jameel B Alqurashi	Teaching Assistant, Department of Chemistry - College of Science
Website	https://uqu.edu.sa/en/Profile/ojgurashi
Email	ojgurashi@uqu.edu.sa
Mr. Nasir Ahmad Ramdan Azzahrani	Teaching Assistant, Department of Chemistry - College of Science
Website	https://uqu.edu.sa/en/Profile/naazzahrani
Email	naazzahrani@uqu.edu.sa
Mr. Khalid Yhya Ali Alshamrani	Teaching Assistant, Department of Chemistry - College of Science
Website	https://uqu.edu.sa/en/Profile/kyshamrani
Email	kyshamrani@uqu.edu.sa
Mr. Khalid Monawer Mughatreb Almasoudi	Teaching Assistant, Department of Chemistry - College of Science
Website	https://uqu.edu.sa/en/Profile/kmmasoudi
Email	kmmasoudi@uqu.edu.sa
Mr. Emad Ibrahim Rashad Aldoobi	Teaching Assistant, Department of Chemistry - College of Science
Website	https://uqu.edu.sa/en/Profile/eidoobi
Email	eidoobi@uqu.edu.sa

Academic Staff

(Lecturers and Teaching Assistants)

Ms. Walaa Saad Saeed Alsaidi	Lecturer, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/wssaidi
Email	wssaidi@uqu.edu.sa
Ms. Hawazin Hamed Mohammed Alotaibi	Lecturer, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/hhotaibi
Email	hhotaibi@uqu.edu.sa
Ms. Ranya Mohammad Khilile Jezani	Lecturer, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/rmjezani
Email	rmjezani@uqu.edu.sa
Ms. Rafgah Ghazi Omar Alghamdi	Teaching Assistant, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/rggamdy
Email	rggamdy@uqu.edu.sa
Ms. Shahad Abdulrahman Ahmed Jabali	Teaching Assistant, Chemistry Department - College of Science
Website	https://uqu.edu.sa/en/Profile/sajabali
Email	sajabali@uqu.edu.sa

Administrative Staff



Administrators (Men)

Mr. Majed Aesh Medd Aldade	madade@uqu.edu.sa
Mr. Zainy Arafa Zainy Al-Shaikh	zashikh@uqu.edu.sa
Mr. Hisham Khalid Mohammed Al-Harhi	hkharhi@uqu.edu.sa
Mr. Bassam Saud Asaad Sejeeni	bssejeeni@uqu.edu.sa
Mr. Radwan Omar Salmeen Abdulmughith	roabdulmughith@uqu.edu.sa
Mr. Saqr Omar Oweid Alotaibi	sootibi@uqu.edu.sa
Mr. Ali Ahmad Hamed Al-Shahary	aashaherey@uqu.edu.sa
Mr. Mohammed Khalid Siraj Aldiyn Mohammed	mksmohammed@uqu.edu.sa
Mr. Mohammed Ahmed Abdullah Al-Zahrani	moaaalzahrani@uqu.edu.sa
Mr. Mohanad Abdolmajeed Mohammad Albanqali	mabanqali@uqu.edu.sa

Administrators		
Ms. Rajaa Abdul Wahab Mohammed Nogali		ranogali@uqu.edu.sa
Ms. Amal Abdelkader Mohsen Bagais		aabagais@uqu.edu.sa
Ms. Budour Abdullah T Alsharif		bashareef@uqu.edu.sa
Ms. Zahraa Mohammed Abdullah Alqarni		zmqarni@uqu.edu.sa
Ms. Azizah Abdullah Othman Falatah		aafalatah@uqu.edu.sa
Ms. Maha Abdulrahman Ahmad Alkabkabi		makabkabi@uqu.edu.sa
Ms. Maysoon Aliwi Kheder Alqorashi		maqorashi@uqu.edu.sa
Ms. Wardah Tafif Mobarak Aldadi		wtdadi@uqu.edu.sa
Ms. Jihad Salah Abdullah Al-orabi		isorabi@uqu.edu.sa
Ms. Noor Salem Abdullah Ba-Almash		nsbalamash@uqu.edu.sa
Ms. Dareen Abdullah Abdulqadir Ajaj		daajaj@uqu.edu.sa
Ms. Ashwaq Mahfouz Dakhilullah Al-Sharif		amshareef@uqu.edu.sa

Statistics of members staff in the Department of Chemistry

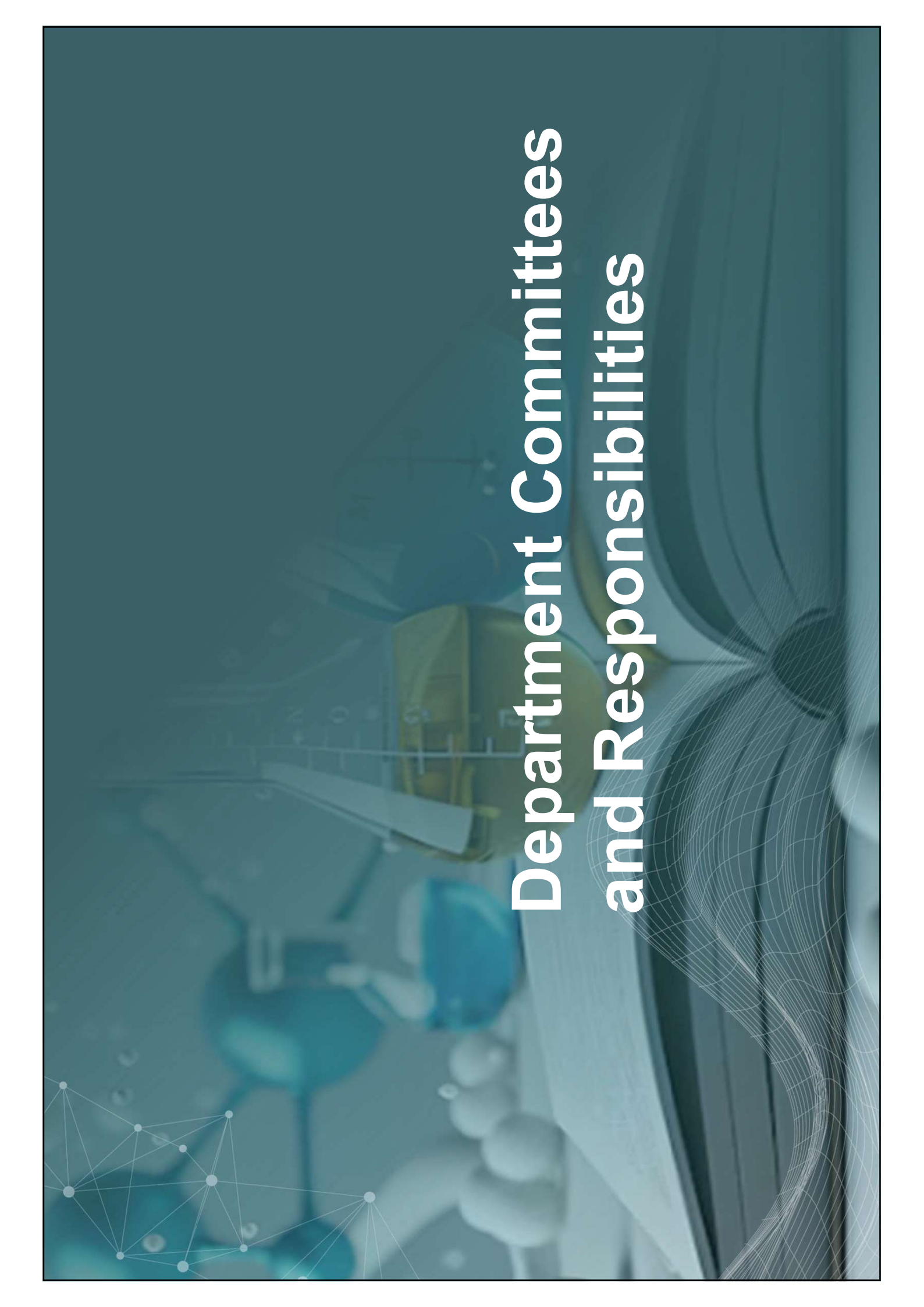
The following table shows the distribution of job grades for College members

and those in similar positions in all disciplines:

Academic Rank	Organic Division				Physical Division				Analytical Division				Inorganic Division				Total
Campus	AL-Abidiyah		AL-Zahir		AL-Abidiyah		AL-Zahir		AL-Abidiyah		AL-Zahir		AL-Abidiyah		AL-Zahir		
	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	Saudi	Contracted	
Professor	4	1	4	1	3	--	2	--	3	--	1	--	1	--	--	1	24
Associate Professor	1	--	4	--	6	--	2	--	1	--	2	--	--	--	2	--	19
Assistant Professor	3	--	5	--	4	--	1	--	1	--	1	--	--	--	1	--	16
Lecturer	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2
Scholar Lecturer	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
Teaching Assistant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6
Scholar T.A.	1	--	1	--	--	--	--	--	--	--	--	--	3	--	--	--	3
Total	9	1	17	1	7	1	14	--	5	1	8	--	4	--	3	1	71

The department also includes administrative and technical staff as follows:

Al-Zahir		Al-Abidiyah	
Laboratory Technicians	Administrative	Laboratory Technicians	Administrative
12	--	9	1



Department Committees and Responsibilities



Schedules Committee

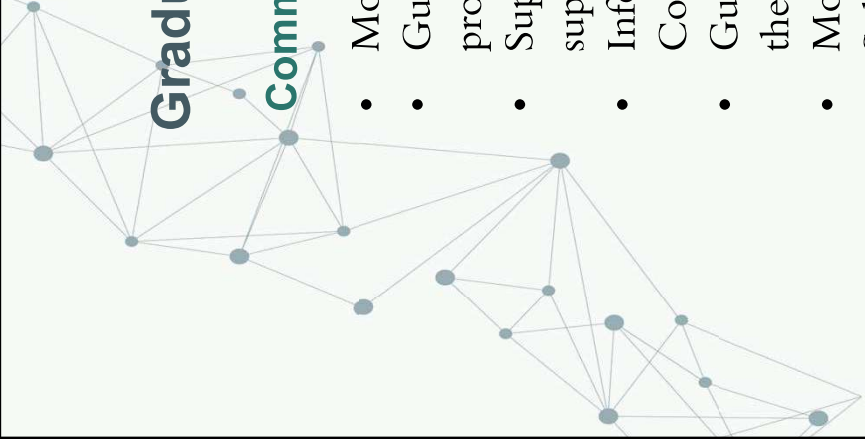
Committee Responsibilities

- Preparing and coordinating academic schedules for both theoretical and practical courses in accordance with the regulations and procedures of the Deanship of Admission and Registration.
- Coordinating with other departments regarding interdisciplinary courses from outside the department and the college, in coordination with the College Vice-Deanship for Academic Affairs.
- Preparing final exam schedules, as well as tracking and monitoring schedules for exams.
- Assigning course coordinators and following up on their designated tasks in coordination with the Department Head.
- Monitoring the progress and discipline of the educational process; the committee may recommend forming quarterly follow-up committees for this purpose.
- Submitting a quarterly report to the Head of Department detailing the committee's activities, accomplishments, and any recommendations or decisions made.
- Any other tasks assigned to the committee by the Head of Department.

Academic Supervision Committee

Committee Responsibilities

- Distributing and monitoring academic supervision among department members.
- Monitoring student registration for courses according to reports and statistics from the academic system.
- Organizing introductory sessions for students to raise awareness about study plans and graduation requirements.
- Monitoring academically struggling students and coordinating with department members to provide them with support.
- Communicating directly with the Cooperative Training Committee to nominate eligible students for cooperative training.
- Any other tasks assigned to the committee by the Head of Department.



Graduate Studies and Scientific Research Committee

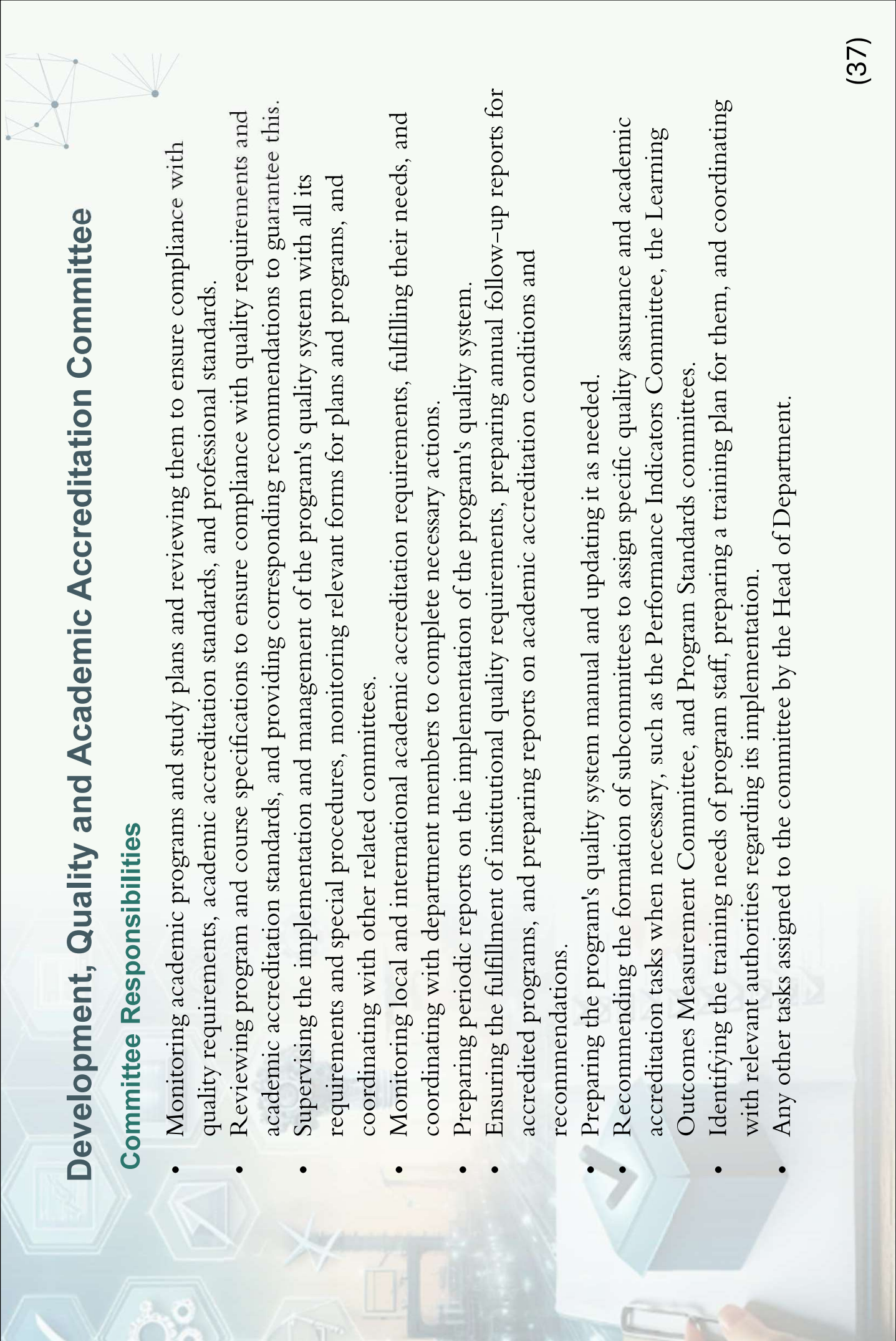
Committee Responsibilities

- Monitoring graduate studies programs.
- Guiding graduate students and monitoring their commitment to the study plan and associated procedures.
- Supervising the comprehensive exam, registering graduate study plans, discussing the selection of supervisors, following up on the course schedule, and reviewing supervisory quotas.
- Informing graduate students about available scientific specializations and the research interests of College members.
- Guiding and monitoring students regarding the formal procedures required for academic affairs and the mechanism for using related forms.
- Monitoring students academically throughout the duration of their enrollment in the program.
- Submitting proposals regarding the development of programs and academic courses.
- Discussing the formation of committees for the defense of scientific theses.
- Organizing scientific meetings, discussion panels, and workshops for graduate students.
- Recommending the establishment of subcommittees to carry out specific committee tasks when necessary.
- Encouraging College members to submit research proposals to supporting entities.
- Building an annual database for the scientific output specific to the department's College members.
- Any other tasks assigned to the committee by the Head of Department.

Curriculum and Study Plans Committee

Committee Responsibilities

- Monitoring the department's programs and study plans, reviewing them, and ensuring they meet university requirements.
- Ensuring that programs keep pace with scientific developments and labor market requirements, while remaining consistent with quality and academic accreditation standards.
- Reviewing proposals for developed and newly created academic programs.
- Reviewing the structure of study plans and the descriptions of programs and courses, while providing feedback on them.
- Reviewing and evaluating course learning outcomes, verifying their link to the academic program's learning outcomes, and suggesting ways to develop teaching and assessment strategies.
- Submitting proposals to the Head of Department to be presented to the Department Council for the completion of formal procedures.
- Monitoring requirements, procedures, and forms related to study plans and programs, and coordinating with other relevant committees.
- Recommending the establishment of subcommittees to carry out specific committee tasks when necessary.
- Submitting a quarterly report to the Department Head detailing the committee's work, achievements, recommendations, and decisions.
- Performing any other tasks assigned to the committee by the Head of Department.



Development, Quality and Academic Accreditation Committee

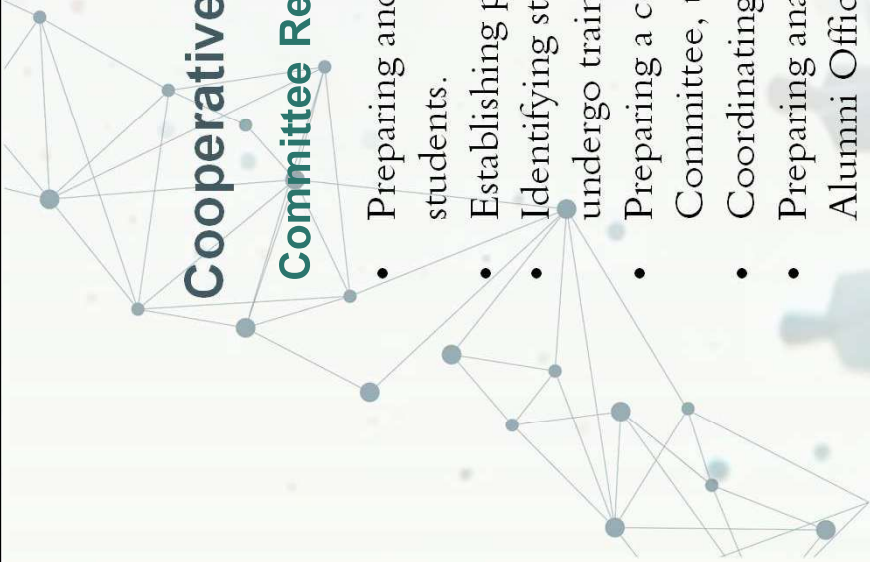
Committee Responsibilities

- Monitoring academic programs and study plans and reviewing them to ensure compliance with quality requirements, academic accreditation standards, and professional standards.
- Reviewing program and course specifications to ensure compliance with quality requirements and academic accreditation standards, and providing corresponding recommendations to guarantee this.
- Supervising the implementation and management of the program's quality system with all its requirements and special procedures, monitoring relevant forms for plans and programs, and coordinating with other related committees.
- Monitoring local and international academic accreditation requirements, fulfilling their needs, and coordinating with department members to complete necessary actions.
- Preparing periodic reports on the implementation of the program's quality system.
- Ensuring the fulfillment of institutional quality requirements, preparing annual follow-up reports for accredited programs, and preparing reports on academic accreditation conditions and recommendations.
- Preparing the program's quality system manual and updating it as needed.
- Recommending the formation of subcommittees to assign specific quality assurance and academic accreditation tasks when necessary, such as the Performance Indicators Committee, the Learning Outcomes Measurement Committee, and Program Standards committees.
- Identifying the training needs of program staff, preparing a training plan for them, and coordinating with relevant authorities regarding its implementation.
- Any other tasks assigned to the committee by the Head of Department.

Alumni Affairs Committee

Committee Responsibilities

- Counting the number of program graduates and the percentage of those employed versus those not yet employed, while inquiring about reasons for non-employment.
- Collecting reports from supervisors and employers in various sectors regarding program graduates.
- Monitoring employer satisfaction surveys for program graduates and presenting their views on the provided programs.
- Staying continuously informed about updates from the Ministry of Civil Service regarding jobs and available work opportunities for graduates.
- Creating a database for graduates to ensure ease and speed of communication post-graduation, in coordination with the College Alumni Committee.
- Following up on updates to graduate data and facilitating communication with them through all approved communication methods.
- Holding periodic meetings with graduates from different cohorts to identify the most significant difficulties and challenges they face, as well as identifying key development programs that could enhance graduate skills in alignment with labor market requirements.
- Submitting a quarterly report to the Department Head detailing the committee's work, achievements, recommendations, and decisions.
- Performing any other tasks assigned to the committee by the Head of Department.



Cooperative Training Committee

Committee Responsibilities

- Preparing and implementing training programs to develop the skills and abilities of the students.
 - Establishing professional partnerships with training entities.
 - Identifying students qualified for training and approving the lists of students expected to undergo training on a regular basis.
 - Preparing a cooperative training manual in coordination with the College Student Training Committee, the Alumni Office, and the Professional Skills Development Office.
 - Coordinating field visits to various training entities.
 - Preparing analysis results of feedback and submitting recommendations and proposals to the Alumni Office and the Professional Skills Development Office for approval and endorsement.
 - Preparing the annual report related to cooperative training activities and achievements and submitting it to the College Student Training Committee.
- Carrying out any other tasks assigned to the committee by the Head of Department.

Voluntary Work and Social Responsibility Committee

Committee Responsibilities

- Promoting the culture of voluntary work among students, the community, and its institutions.
- Organizing the relationship between the parties involved in voluntary work and defining their rights and duties.
- Enhancing values of national belonging, humanitarian work, and social responsibility.
- Developing the capabilities of volunteers and directing them toward activities that enhance the department's role in community participation.
- Proposing plans for activities, programs, and events that highlight the department's role in community participation.
- Supervising the coordination of social occasions and visits within the department, in coordination with the College Deanship.
- Publishing and documenting the department's activities and contributions through social media channels under the department's supervision and in coordination with the College Deanship.
- Coordinating occasions, activities, and events with relevant authorities under the department's supervision and in coordination with the College Deanship.
- Submitting a quarterly report to the Department Head detailing the committee's work, achievements, recommendations, and decisions.
- Performing any other tasks assigned to the committee by the Department Head.

General Courses and Exams Committee

Committee Responsibilities

- Supervising the progress of general courses within the department.
- Supervising the progress of courses offered outside the department and the college.
- Supervising laboratories and experiments for general courses both inside and outside the college.
- Supervising and monitoring the standardization of midterm and final exams for general courses.
- Coordinating exam procedures for general courses and courses that require unified testing.
- Supervising the preparation of standardized exams and their related reports.
- Any other tasks assigned to the committee by the Department Head.

Laboratories and Educational Services Committee

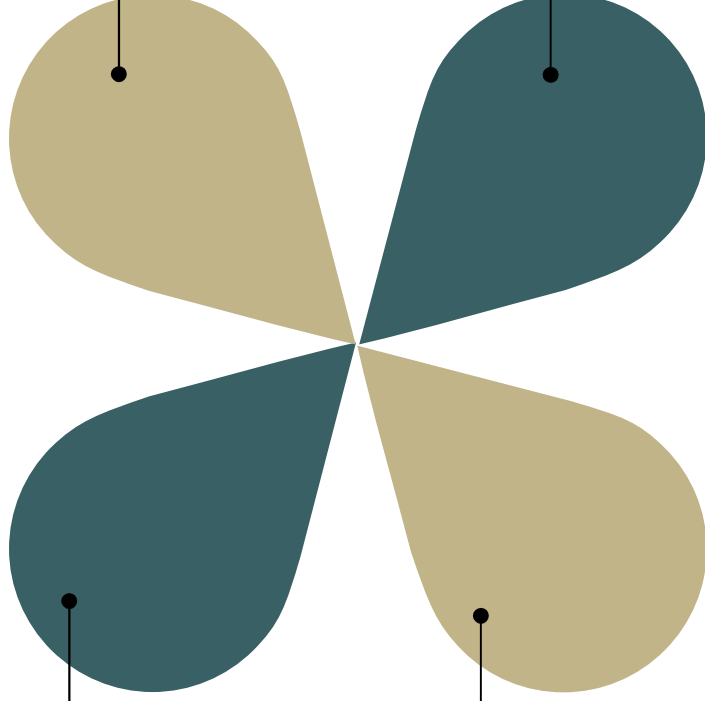
Committee Responsibilities

- Preparing laboratory requirements, including materials, consumables, and equipment.
- Following up with laboratory technicians in preparing reports on the inventory of laboratory assets.
- Identifying educational needs, which is done through the Department Head to coordinate with the Educational Services Department.
- Reviewing laboratory orders with companies, preparing sorting and receiving committees, and distributing items as needed in coordination with the Head of Department.
- Following up on department orders with relevant authorities in coordination with the Head of Department and the College Deanship.
- Ensuring laboratory security and safety procedures according to specified terms and regulations, and communicating with relevant authorities as required in coordination with the Department and the College Deanship.
- Following up with technicians regarding the submission of operation and maintenance tickets and ensuring the completion of requested tasks.
- Submitting a quarterly report to the Head of Department detailing the committee's work, accomplishments, recommendations, and decisions.
- Any other tasks assigned to the committee by the Head of Department.

The background image is a composite of academic and scientific elements. It features a stack of books in yellow, red, and blue, with a pair of black-rimmed glasses resting on top. To the right, a round-bottom flask contains a vibrant green liquid. The entire scene is overlaid with a semi-transparent teal filter. In the bottom-left corner, there is a white geometric pattern of interconnected dots and lines, resembling a molecular or network structure. In the bottom-right corner, there are white, concentric, wavy lines that suggest a signal or ripple effect.

Academic Programs

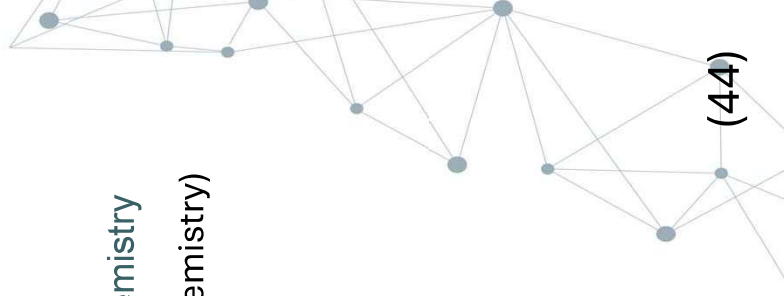
Chemistry
(General Chemistry)
140 hours



Chemistry
(Analysis and Quality
Measurements)
140 hours

Industrial Chemistry
(Industrial Chemistry)
137 hours

Industrial Chemistry
(Polymer Chemistry)
137 hours



Study Plans



Chemistry Program (140 Hours)

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

The specific track or specialization is chosen after the completion of the fifth level.



Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
First	University	IND1101T	2	Design Thinking	Mandatory	--
	University	QR1101T	2	Tajweed of the Holy Quran	Mandatory	--
	College	CHM1101T	3	General Chemistry 1	Mandatory	--
	College	ELIN1301T	3	English Language (1)	Mandatory	--
	College	MTH1101T	3	Calculus 1	Mandatory	--
	Specialization	CHM1201T	3	Principles of Analytical Chemistry	Mandatory	--
	Specialization	CHM1102T	2	Techniques in Chemical Laboratories	Mandatory	--
	University	QR2102T	2	Memorization of the Holy Quran 1	Mandatory	--
	University	CUR1101T	0	University Skills	Mandatory	--
	College	ELIN1302T	3	English Language (2)	Mandatory	English Language (1)
Second	College	BIO1101T	3	General Biology	Mandatory	--
	College	PHYS1101T	3	General Physics 1	Mandatory	--
	Specialization	CHM1202T	3	Volumetric and Gravimetric Analytical Chemistry	Mandatory	Principles of Analytical Chemistry
	Specialization	CHM1103T	3	General Chemistry 2	Mandatory	General Chemistry 1
	Support	MTH1121T	3	Calculus 2	Mandatory	Calculus 1

Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
Third	University	AI2001T	2	Introduction to Artificial Intelligence	Mandatory	--
	University	QR2103T	2	Memorization of the Holy Quran 2	Mandatory	--
	Specialization	CHM2501T	1	Chemistry of Solutions and Kinetic Theory of Gases	Mandatory	Volumetric and Gravimetric Analytical Chemistry
	Specialization	CHM2301T	2	Chemistry of Main Group Elements	Mandatory	General Chemistry 2
	Specialization	CHM2401T	3	Aliphatic Organic Chemistry	Mandatory	General Chemistry 1
	Specialization	CHM2502T	3	Thermodynamics	Mandatory	General Chemistry 1
	Support	MTH2122T	2	Multivariable Calculus	Mandatory	Calculus 1
	Support	PHYS3304T	3	Electricity and Magnetism for Chemists	Mandatory	Calculus 2
	University	QR3104T	2	Completion of the Holy Quran	Mandatory	General Physics 1
	University	ICC1201T	2	Values and Ethics	Mandatory	Tajweed of the Holy Quran
Fourth	Specialization	CHM2302T	2	Transition Element Chemistry	Mandatory	--
	Specialization	CHM2402T	3	Aromatic and Heterocyclic Chemistry	Mandatory	Chemistry of Main Group Elements
	Specialization	CHM2503T	3	Chemical Kinetics	Mandatory	Aliphatic Organic Chemistry
	Specialization	CHM2203T	3	Spectroscopic and Electrochemical Analysis Methods	Mandatory	Thermodynamics
	Support	PHYS4506T	2	Quantum Physics for Chemists	Mandatory	Volumetric and Gravimetric Analytical Chemistry
	Support	MTH2123T	3	Introduction to Differential Equations	Mandatory	Multivariable Calculus

Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
Fifth	University	THM3191T	2	Tourism and Hospitality	Optional	--
	University	HP3009T	2	Community Health	Optional	--
	University	ARS1601T	2	Writing and Public Speaking	Optional	--
	University	HIS4315T	2	Heritage and Cultural Diversity	Optional	--
	University	SPED1102T	2	Diversity, Equity, and Inclusion	Optional	--
	University	PSY3127T	2	Life Skills	Optional	--
	University	ECO4312T	2	E-Commerce	Optional	--
	University	BUS1098T	2	Innovation and Entrepreneurship	Optional	--
	University	FIN3703T	2	Personal Financial Planning Skills	Optional	--
	University	CS2001T	2	Digital Technology	Optional	--
Sixth	University	ICC4202T	2	Family in Islam	Mandatory	--
	Specialization	CHM3505T	3	Electrochemistry	Mandatory	Chemistry of Solutions and Kinetic Theory of Gases
	Specialization	CHM3403T	3	Chemistry of Reactions and Organic Synthesis	Mandatory	Aromatic and Heterocyclic Chemistry
	Specialization	CHM3504T	1	Colloids and Phase Rule	Mandatory	Chemical Kinetics
	Specialization	CHM3404T	2	Physical and Spectroscopic Organic Chemistry	Mandatory	Aromatic and Heterocyclic Chemistry
	Specialization	CHM3303T	3	Coordination Chemistry	Mandatory	Transition Element Chemistry
	Support	CS3021T	3	Introduction to Computer Programming	Mandatory	--

General Chemistry Program

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

Chemistry (General Chemistry)





Level	Requirement	Course Number	Credit Hours	Course Name	Optiona I/ Mandatory	Name of required Course
Sixth	Specialization	CHM3507T	2	Quantum Chemistry	Mandatory	General Chemistry 2
					Mandatory	Introduction to Differential Equations
	Specialization	CHM3405T	2	Spectroscopic Organic Chemistry	Mandatory	Chemistry of Reactions and Organic Synthesis
	Specialization	CHM3406T	3	Petroleum and Petrochemicals	Mandatory	Aromatic and Heterocyclic Chemistry
	Specialization	CHM3305T	3	Organometallic Chemistry	Mandatory	Coordination Chemistry
	Specialization	CHM3205T	2	Principles of Environmental Chemistry	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHM3304T	2	Solid State Chemistry	Mandatory	Transition Element Chemistry
	Specialization	CHM3204T	3	Separation Methods and Thermal Analysis	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHM3506T	3	Surface Chemistry and Catalysis	Mandatory	Colloids and Phase Rule
	Specialization	CHM4601T	6	Cooperative Training	Mandatory	Separation Methods and Thermal Analysis
Seventh					Mandatory	Spectroscopic Organic Chemistry

Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
Eighth	Specialization	CHM4511T	2	Corrosion and Electroplating Chemistry	Optional	Electrochemistry
	Specialization	CHM4510T	2	Nanochemistry	Optional	Surface Chemistry and Catalysis
	Specialization	CHM4217T	2	Principles of Forensic Chemistry	Optional	Principles of Environmental Chemistry
	University	BUS1099T	2	Professional Development Skills	Mandatory	--
Eighth	Specialization	CHM4408T	3	Polymer Chemistry	Mandatory	Petroleum and Petrochemicals
	Specialization	CHM4409T	2	Natural Products Chemistry	Mandatory	Spectroscopic Organic Chemistry
	Specialization	CHM4602T	3	Graduation Project	Mandatory	Cooperative Training
	Specialization	CHM4407T	2	Bio-organic Chemistry	Mandatory	Spectroscopic Organic Chemistry
	Specialization	CHM4509T	2	Molecular Spectra	Mandatory	Quantum Chemistry
	Specialization	CHM4508T	2	Materials Chemistry	Mandatory	Surface Chemistry and Catalysis
	Specialization	CHM4306T	2	Inorganic Reaction Mechanisms and Spectra	Mandatory	Organometallic Chemistry

Chemistry Analysis and Quality Measurements Program

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

Chemistry (Chemistry Analysis and
Quality Measurements)





Level	Requirement	Course Number	Credit Hours	Course Name	Optional/ Mandatory	Name of required Course
Sixth	Specialization	CHM3208T	3	Food Analysis	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHM3207T	3	Bioanalytical Chemistry	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHM3206T	3	Industrial Analysis and Quality Measurements	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHM3410T	3	Spectroscopic Organic Measurements	Mandatory	Chemistry of Reactions and Organic Synthesis
	Specialization	CHM3506T	3	Surface Chemistry and Catalysis	Mandatory	Colloids and Phase Rule
	Specialization	CHM3204T	3	Separation Methods and Thermal Analysis	Mandatory	Spectroscopic and Electrochemical Analysis Methods
Seventh	Specialization	CHM3304T	2	Solid State Chemistry	Mandatory	Transition Element Chemistry
	Specialization	CHM4601T	6	Cooperative Training	Mandatory	Separation Methods and Thermal Analysis
					Mandatory	Spectroscopic Organic Measurements

Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
Eighth	Specialization	CHM4214T	2	Water Treatment and Analysis	Optional	Separation Methods and Thermal Analysis
	Specialization	CHM4213T	2	Instrumental Analysis and Validation Methods	Optional	Industrial Analysis and Quality Measurements
	Specialization	CHM4212T	2	Sample Preparation Methods	Optional	Separation Methods and Thermal Analysis
	Specialization	CHM4215T	2	Organic Analytical Chemistry	Optional	Bioanalytical Chemistry
	University	BUS1099T	2	Professional Development Skills	Mandatory	--
Eighth	Specialization	CHM4408T	2	Polymer Chemistry	Mandatory	Food Analysis
	Specialization	CHM4409T	2	Natural Products Chemistry	Mandatory	Bioanalytical Chemistry
	Specialization	CHM4602T	3	Graduation Project	Mandatory	Cooperative Training
	Specialization	CHM4512T	2	Quantum Chemistry and Molecular Spectra	Mandatory	Surface Chemistry and Catalysis
					Mandatory	Introduction to Differential Equations
	Specialization	CHM4411T	3	Petroleum Chemistry and Quality Standards	Mandatory	Spectroscopic Organic Measurements
	Specialization	CHM4211T	3	Forensic Chemistry	Mandatory	Separation Methods and Thermal Analysis

Industrial Chemistry Program (137)

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

The specific track or specialization is chosen after the completion of the fifth level.





Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
First	University	IND1101T	2	Design Thinking	Mandatory	--
	University	QR1101T	2	Tajweed of the Holy Quran	Mandatory	--
	College	CHM1101T	3	General Chemistry 1	Mandatory	--
	College	ELIN1301T	3	English Language (1)	Mandatory	--
	College	MTH1101T	3	Calculus 1	Mandatory	--
	Specialization	CHM1201T	3	Principles of Analytical Chemistry	Mandatory	--
	Specialization	CHM1102T	2	Techniques in Chemical Laboratories	Mandatory	--
	University	QR2102T	2	Memorization of the Holy Quran 1	Mandatory	--
	University	CUR1101T	0	University Skills	Mandatory	--
	College	ELIN1302T	3	English Language (2)	Mandatory	English Language (1)
Second	College	BIO1101T	3	General Biology	Mandatory	--
	College	PHYS1101T	3	General Physics 1	Mandatory	--
	Specialization	CHM1202T	3	Volumetric and Gravimetric Analytical Chemistry	Mandatory	Principles of Analytical Chemistry
	Specialization	CHM1103T	3	General Chemistry 2	Mandatory	General Chemistry 1
	Support	MTH1121T	3	Calculus 2	Mandatory	Calculus 1



Level	Requirement	Course Number	Credit Hours	Course Name	Optional/ Mandatory	Name of required Course
Third	University	QR2103	2	Memorization of the Holy Quran 2	Mandatory	--
	University	AI2001	2	Introduction to Artificial Intelligence	Mandatory	--
	Specialization	CHM12501	3	Chemical Thermodynamics	Mandatory	General Chemistry 1
					Mandatory	Principles of Inorganic Chemistry and Basic Elements
	Specialization	CHM12502	3	Thermodynamics	Mandatory	General Chemistry 1
					Mandatory	Descriptive Analytical Chemistry
	Specialization	CHM12402	3	Aromatic Organic Chemistry	Mandatory	Aliphatic Organic Chemistry
	Specialization	CHM12202	3	Volumetric and Gravimetric Analytical Chemistry	Mandatory	Descriptive Analytical Chemistry
	Specialization	CHM12302	3	Transition Element Chemistry	Mandatory	Principles of Inorganic Chemistry and Basic Elements
	University	QR3104	2	Completion of the Holy Quran	Mandatory	Tajweed of the Holy Quran
Fourth	University	ICC1201T	2	Values and Ethics	Mandatory	--
	Specialization	CHM12503	3	Electrochemistry	Mandatory	Chemical Thermodynamics
	Specialization	CHM12504	3	Surface Chemistry and Surfactant Materials	Mandatory	Chemical Kinetics
	Specialization	CHM12403	3	Heterocyclic Chemistry	Mandatory	Aromatic Organic Chemistry
	Specialization	CHM12404	3	Physical and Spectroscopic Organic Chemistry	Mandatory	Aromatic Organic Chemistry
	Specialization	CHM1220T	3	Spectroscopic and Electrochemical Analysis Methods	Mandatory	Volumetric and Gravimetric Analytical Chemistry
					Mandatory	Volumetric and Gravimetric Analytical Chemistry



Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
Fifth	University	THM3191T	2	Tourism and Hospitality	Optional	--
	University	HP3009T	2	Community Health	Optional	--
	University	ARS1601T	2	Writing and Public Speaking	Optional	--
	University	HIS4315T	2	Heritage and Cultural Diversity	Optional	--
	University	SPED1102T	2	Diversity, Equity, and Inclusion	Optional	--
	University	PSY3127T	2	Life Skills	Optional	--
	University	ECO4312T	2	E-Commerce	Optional	--
	University	BUS1098T	2	Innovation and Entrepreneurship	Optional	--
	University	FIN3703T	2	Personal Financial Planning Skills	Optional	--
	University	CS2001T	2	Digital Technology	Optional	--
	University	ICC4202T	2	Family in Islam	Mandatory	--
	Specialization	CHMI3406T	3	Polymer Chemistry	Mandatory	Heterocyclic Chemistry
Fifth	Specialization	CHMI3405T	3	Petroleum Chemistry	Mandatory	Heterocyclic Chemistry
	Specialization	CHMI3505T	3	Industrial Catalytic Chemistry	Mandatory	Surface Chemistry and Surfactant Materials
	Specialization	CHMI3204T	3	Separation Methods and Thermal Analysis	Mandatory	Spectroscopic and Electrochemical Analysis Methods
	Specialization	CHMI3303T	3	Coordination Chemistry	Mandatory	Transition Element Chemistry
						(59)

Industrial Chemistry Program

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

Industrial Chemistry (Industrial
Chemistry)





Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
Sixth	Specialization	CHMI3206T	1	Sample Collection and Preparation Methods	Mandatory	Separation Methods and Thermal Analysis
	Specialization	CHMI3506T	1	Molecular Spectra	Mandatory	Electrochemistry
	Specialization	CHMI3304T	2	Industrial Organometallic Chemistry	Mandatory	Coordination Chemistry
	Specialization	CHMI3407T	3	Spectroscopic Organic Chemistry	Mandatory	Physical and Spectroscopic Organic Chemistry
	Specialization	CHMI3207T	2	Industrial Pollutants and Their Treatment	Mandatory	Separation Methods and Thermal Analysis
	Specialization	CHMI3409T	3	Chemistry of Industrial Cleaners and Pesticides	Mandatory	Petroleum Chemistry
	Specialization	CHMI3205T	2	Industrial Analysis and Quality Control	Mandatory	Separation Methods and Thermal Analysis
	Specialization	CHMI3410T	2	Green and Sustainable Chemistry	Mandatory	Industrial Catalytic Chemistry
	Specialization	CHMI3408T	2	Petrochemical Industries	Mandatory	Petroleum Chemistry
	Specialization	CHMI4601T	6	Cooperative Training	Mandatory	Spectroscopic Organic Chemistry
Seventh						

Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
Eighth	Specialization	CHMI4414T	2	Photochemistry	Optional	Green and Sustainable Chemistry
	Specialization	CHMI4306T	2	Fertilizers Chemistry	Optional	Industrial Organometallic Chemistry
	Specialization	CHMI4415T	2	Chemistry of Cosmetics and Perfumes	Optional	Chemistry of Industrial Cleaners and Pesticides
	University	BUS1099T	2	Professional Development Skills	Mandatory	--
	Specialization	CHMI4413T	2	Industrial Applications for Natural Products	Mandatory	Spectroscopic Organic Chemistry
	Specialization	CHMI4412T	2	Medicinal Chemistry	Mandatory	Spectroscopic Organic Chemistry
	Specialization	CHMI4602T	3	Graduation Project	Mandatory	Cooperative Training
Eighth	Specialization	CHMI4507T	2	Corrosion and Electroplating Chemistry	Mandatory	Green and Sustainable Chemistry
	Specialization	CHMI4305T	3	Industrial Inorganic Chemistry	Mandatory	Industrial Organometallic Chemistry
	Specialization	CHMI4411T	3	Chemistry of Dyes and Textiles	Mandatory	Chemistry of Industrial Cleaners and Pesticides

Polymer Chemistry Program

Study Plan

College: College of Science

Degree: Bachelor's Degree

Department: Chemistry

Plan 47

Specialization:

Industrial Chemistry (Polymer
Chemistry)





Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
Sixth	Specialization	CHM13506T	1	Molecular Spectra	Mandatory	Electrochemistry
	Specialization	CHM13304T	2	Industrial Organometallic Chemistry	Mandatory	Coordination Chemistry
	Specialization	CHM13407T	3	Spectroscopic Organic Chemistry	Mandatory	Physical and Spectroscopic Organic Chemistry
	Specialization	CHM13410T	3	Green and Sustainable Chemistry	Mandatory	Industrial Catalytic Chemistry
	Specialization	CHM13701T	3	Polymer Preparation	Mandatory	Polymer Chemistry
	Specialization	CHM13703T	3	Polymer Characterization	Mandatory	Polymer Chemistry
	Specialization	CHM13704T	3	Integrated Polymers	Mandatory	Polymer Chemistry
	Specialization	CHM13702T	2	Physical Properties of Polymers	Mandatory	Polymer Chemistry
	Specialization	CHM14601T	6	Cooperative Training	Mandatory	Spectroscopic Organic Chemistry
	Specialization	CHM14601T	6	Cooperative Training	Mandatory	Spectroscopic Organic Chemistry

Level	Requirement	Course Number	Credit Hours	Course Name	Optional / Mandatory	Name of required Course
Eighth	Specialization	CHM14711T	2	Branched Polymers	Optional	Cooperative Training
	Specialization	CHM14710T	2	Selected Topics in Polymer Science	Optional	Cooperative Training
	Specialization	CHM14712T	2	Inorganic Polymers	Optional	Cooperative Training
	University	BUS1099T	2	Professional Development Skills	Mandatory	--
	Specialization	CHM14707T	2	Plastic Recycling and Sustainability	Mandatory	Green and Sustainable Chemistry
Eighth	Specialization	CHM14708T	2	Polymerized Materials and Their Applications	Mandatory	Integrated Polymers
	Specialization	CHM14709T	2	Chemistry of Industrial Fibers and Rubber	Mandatory	Polymer Preparation
	Specialization	CHM14602T	3	Graduation Project	Mandatory	Cooperative Training
	Specialization	CHM14705T	3	Polymer Processing	Mandatory	Physical Properties of Polymers
	Specialization	CHM14706T	2	Biopolymers	Mandatory	Integrated Polymers

Master's Program in Chemistry (42 hours)

Study Plan

College: College of Science

Degree: Master's Degree

Department: Chemistry

Plan 47

Specialization:

Chemistry



Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
First	Specialization	CHM6013	3	Spectroscopic Identification of Organic Compounds	Mandatory	--
	Specialization	CHM6002	3	Advanced Chemical Thermodynamics	Mandatory	--
	Specialization	CHM6000	3	Advanced Inorganic Chemistry	Mandatory	--
	Specialization	CHM6005	3	Advanced Chemical Kinetics	Mandatory	--
Second	Specialization	CHM6019	3	Polymer Chemistry	Mandatory	Spectroscopic Identification of Organic Compounds
	Specialization	CHM6203	3	Quantum Chemistry	Mandatory	Advanced Chemical Thermodynamics
	Specialization	CHM6006	3	Organometallic Chemistry	Mandatory	Advanced Inorganic Chemistry
	Specialization	CHM6018	3	Research Methodology and Ethics	Mandatory	--

Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
Third	Specialization	CHM6104	3	Natural Products Chemistry	(Optional)	Polymer Chemistry
	Specialization	CHM6001	3	Mechanisms of Organic Reactions	(Optional)	Separation Methods and Thermal Analysis
	Specialization	CHM6207	3	Nanomaterials Chemistry	(Optional)	Sensors in Analytical Chemistry
	Specialization	CHM6214	3	Advanced Surface Chemistry and Catalysis	(Optional)	Advanced Chemical Kinetics
	Specialization	CHM6100	3	Synthetic Chemistry	(Optional)	Spectroscopic Identification of Organic Compounds
	Specialization	CHM6204	3	Advanced Molecular Spectra	(Optional)	Quantum Chemistry
	Specialization	CHM6101	3	Chemistry of Heterocyclic Compounds	(Optional)	Natural Products Chemistry
Fourth	Specialization	CHM6217	3	Advanced Electrochemistry and its Applications	(Optional)	Advanced Surface Chemistry and Catalysis

Master's Program in Chemistry of Analysis and Quality Measurements(42 hours)

Study Plan

College: College of Science

Degree: Master's Degree

Department: Chemistry

Plan 47

Specialization:

Chemistry of Analysis and Quality
Measurements



Level	Requirement	Course Number	Credit Hours	Course Name	Optional/Mandatory	Name of required Course
First	Specialization	CHMA6107	3	Advanced Instrumental Analysis	Mandatory	--
	Specialization	CHMA6000	3	Analytical Data Processing	Mandatory	--
	Specialization	CHMA6013	3	Advanced Organic Analytical Chemistry	Mandatory	--
	Specialization	CHMA6004	3	Quality in Chemical Measurements	Mandatory	--
Second	Specialization	CHMA6007	3	Quality Measurements in Petrochemical Industries	Mandatory	Analytical Data Processing
	Specialization	CHMA6005	3	Separation Methods and Thermal Analysis	Mandatory	--
	Specialization	CHMA6006	3	Sensors in Analytical Chemistry	Mandatory	Advanced Organic Analytical Chemistry
	Specialization	CHMA6018	3	Research Methodology and Ethics	Mandatory	--
Third	Specialization	CHMA6014	3	Pharmaceutical Analysis and Quality Control	Mandatory	Advanced Instrumental Analysis
	Specialization	CHMA6008	3	Advanced Analysis of Air and Soil Pollutants	Mandatory	Separation Methods and Thermal Analysis
	Specialization	CHMA6009	3	Water Analysis and Recycling Techniques	Mandatory	Sensors in Analytical Chemistry
	Specialization	CHMA6011	3	Food Chemistry and Quality Control	Mandatory	Pharmaceutical Analysis and Quality Control
Fourth	Specialization	CHMA6097	6	Master's Graduation Research	Mandatory	Advanced Instrumental Analysis Quality Measurements in Petrochemical Industries

Academic Affairs



Registration, Dropping, and Adding Regulations

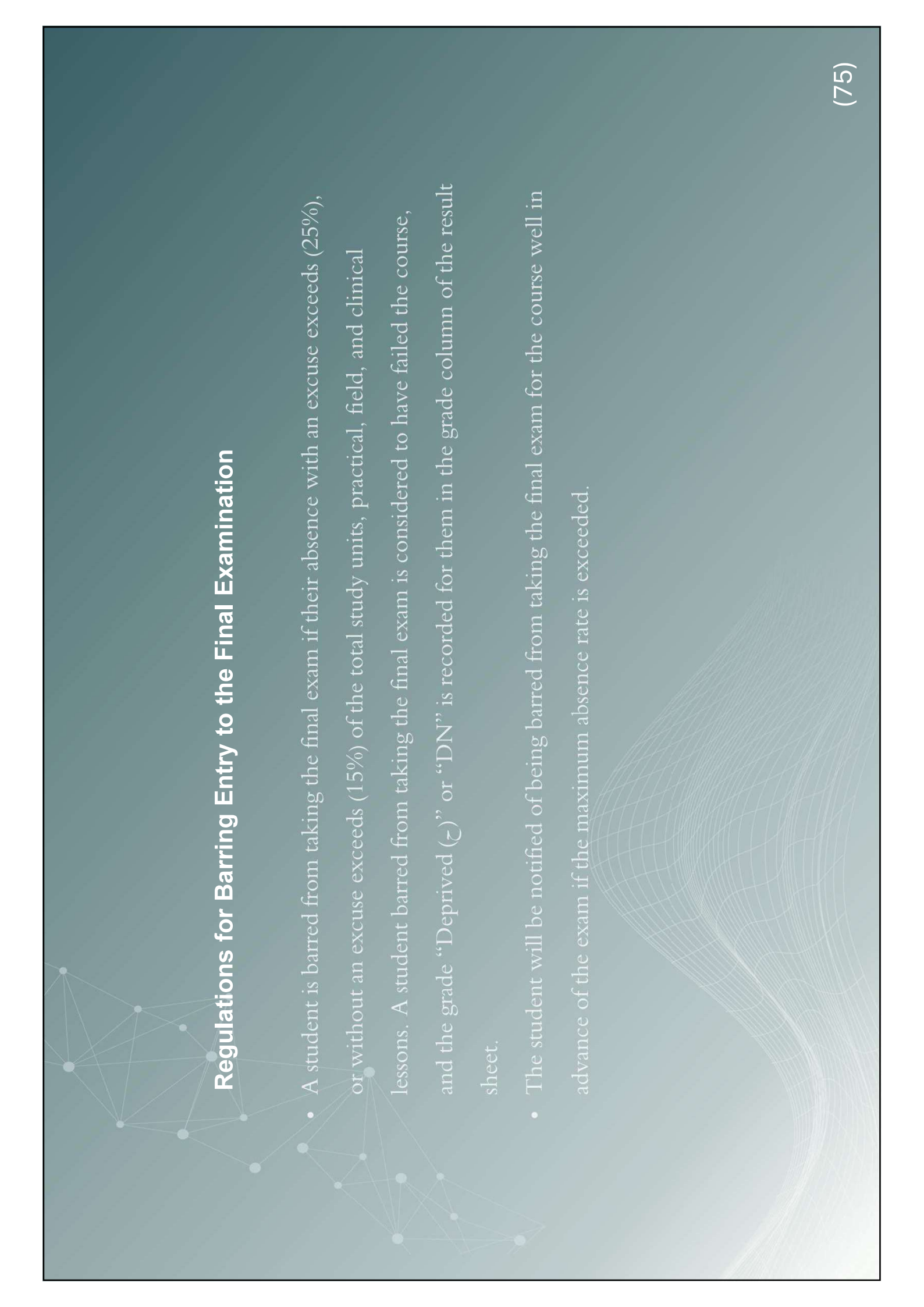
- The Deanship of Admissions and Registration determines the timetable for the registration, drop, add and all other work for each semester according to the annual calendar approved by the University Council.
- The minimum course load for a student shall not be less than ten study hours. This does not include a student expected to graduate in the same semester who has less than ten hours remaining, or who is not committed to the study plan, or who is struggling due to the lack of courses offered for registration by the departments, or who is visiting another university.
- The maximum course load for a student in the summer semester is ten credit hours. This does not include equivalent courses.
- When a student registers for courses, care must be taken to ensure there is no conflict in the academic schedule, and that the prerequisites for the course or courses to be registered for are met. The academic supervisor must approve or reject exceeding the requirement, and the procedure is approved by the head of the department.
- Students are not permitted to combine course registration with cooperative training or its equivalent for programs that require the student to be fully dedicated to training, as determined by the approved study plans and the cooperative training guide approved by the University Council.
- The student is treated in the different educational patterns in terms of study, tests, grades, assessments, average and academic procedures according to the executive rules for study and tests for the undergraduate stage at Umm Al-Qura University.
- The department council approves the academic schedule according to the study plans and in accordance with the regulations approved by the Deanship of Admissions and Registration.
- The department may not modify the academic schedule or delete courses after the start of the semester except in necessary cases, and with the approval of the college dean based on the request of the department head and with the approval of the dean of admissions and registration.
- Students are not permitted to drop a course in first-year programs, preparatory year programs, or courses in the full academic year system.
- All courses for students in the first year and preparatory year programs are registered in each semester, regardless of whether the prerequisites for the courses to be registered have been met.
- If a student has no registered courses in their academic schedule after the registration period ends, they will be considered to have dropped out of school and their registration will be cancelled at the end of the semester unless they submit a request for postponement or apology within the regular period.
- The Chemistry Department, when creating, modifying, or developing its programs or study plans, adheres to the procedural guide for programs and study plans approved by the University Council.
- All midterm and final exams are held in person for all courses, regardless of the teaching style followed.
- The course instructor is committed to the teaching style specified in the approved course description and how to apply it and communicate it to the student at the beginning of teaching the course.

Regulations for Withdrawing from Courses

- A student may withdraw from a maximum of two courses during a semester. This must be done according to the mechanism set by the Deanship of Admission and Registration and within the deadlines announced in the university calendar for each semester.
- A student cannot withdraw from a course that is at or below their current academic level according to the approved study plan. However, this restriction does not apply to students with a cumulative GPA of 3.5 or higher.
- Withdrawal from the same course more than once during the entire period of study is not permitted.
- A withdrawn student receives a grade of "W" (ع) for the course.
- Withdrawal is not allowed for courses in the summer semester, first-year programs, the preparatory year, or courses within the full-year academic system.
- The withdrawal must not result in the student's study load falling below the minimum required semester hours.
- If a student is registered for only one course, they are not entitled to withdraw from it. This includes cooperative training or its equivalent. In such cases, the student has the right to request a deferral or withdrawal from the entire semester in accordance with Articles 16 and 18 and their executive regulations.

Regulations for Assessment, Examinations, and Grading

- Adherence to the mechanism for calculating the grade for coursework, the final exam, and the evaluation method, based on what has been adopted in the course description.
- Inform the student of their coursework grade at least one week before the final exam.
- The dates for midterm and final exams and all academic procedures are included in the annual academic calendar prepared by the Deanship of Admissions and Registration and approved by the University Council before the start of the academic year.
- The college council shall form – as needed – a committee to cooperate with the department in organizing the final examinations, and its tasks shall be as follows:
 1. Monitoring the progress of the exams on their scheduled dates and at their designated locations
 2. Monitoring grades from departments after ensuring they meet the required procedures
- The final exam answer sheets for students are handed over to the head of the department that submitted the course, and are kept for a year, then destroyed in an official report.
- Electronic answer data is stored for one academic year in the university's approved electronic systems.
- The monitoring of grades is available to College members according to the mechanism determined by the Deanship of Admission and Registration and during the dates announced in the university calendar, provided that the final grade for the course is monitored within a maximum period of (48) hours starting from the end of the final exam period for the course.
- If an error is detected after it has been approved, the following steps should be taken:
 1. Prepare a report on the reasons for the request for modification, signed by the course professor, the head of the department submitting the request, the academic affairs officer, and the dean of the college, and attach all supporting evidence and proofs
 2. The grade is adjusted within a period not exceeding the fifth week of the following semester or the following academic year



Regulations for Barring Entry to the Final Examination

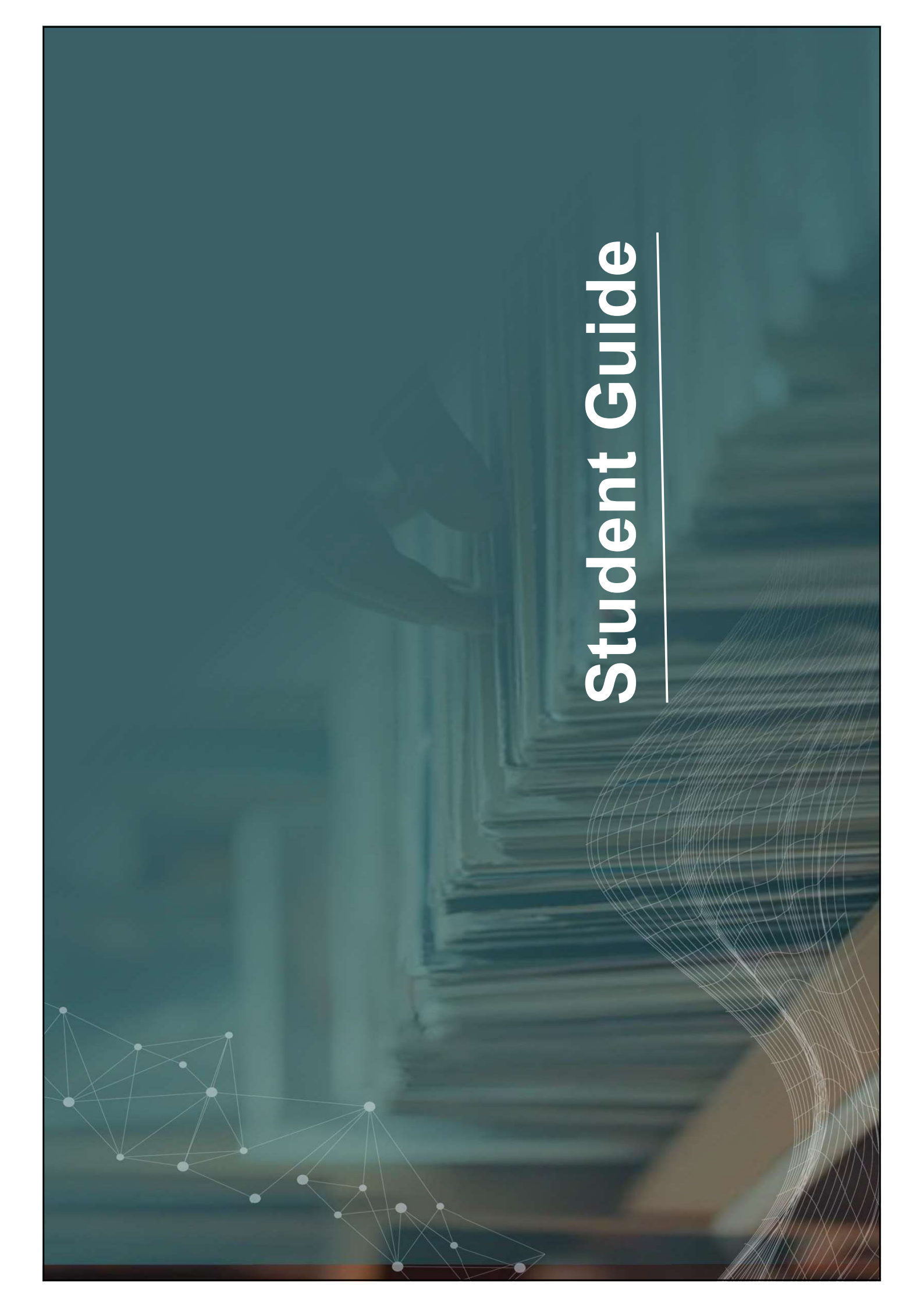
- A student is barred from taking the final exam if their absence with an excuse exceeds (25%), or without an excuse exceeds (15%) of the total study units, practical, field, and clinical lessons. A student barred from taking the final exam is considered to have failed the course, and the grade “Deprived (ـ)” or “DN” is recorded for them in the grade column of the result sheet.
- The student will be notified of being barred from taking the final exam for the course well in advance of the exam if the maximum absence rate is exceeded.

Regulations for Alternative Exams and Excuses for Final Exams

- If a student is unable to take the final exam due to an excuse, the student's college or institute council may accept the excuse and allow the student to take an alternative exam, no later than the end of the next academic level, the next semester, or the next academic year for a college or institute that applies the full academic year system. The grade obtained by the student after taking the alternative exam will be given, or a failing grade (س) or (F) if the student does not take the alternative exam.
- The student who is absent from the final exam submits his excuse to the head of the department that offers the course.
- The department head refers the student's request to the college council, including his recommendation. If the college council accepts the excuse, the student is given an alternative exam no later than the end of the following semester and is notified via university email of the date and location of the alternative exam. The student's grade is calculated after he takes the alternative exam, along with his total grades in coursework.
- An alternative exam will be held for the student if he has an acceptable excuse based on the approval of the college council, such as (illness for which a proven sick leave has been granted - death of a relative up to the third degree - imprisonment or detention - natural disasters - accidents, and the like).
- If a student is absent from the alternative exam without an excuse accepted by the college council, his grade will be calculated according to what is stated in Article Thirty-One of these regulations.

Grade Symbols in the Academic Record

Degree	Grade in English	Grade in Arabic	Symbol in English	Symbol in Arabic	Estimate out of (5)	Estimate out of (4)
100 - 95	Exceptional	ممتاز مرتفع	A+	أ+	5.0	4.0
90 to less than 95	Excellent	ممتاز	A	أ	4.75	3.75
85 to less than 90	Superior	جيد جداً مرتفع	B+	ب+	4.5	3.5
80 to less than 85	Very Good	جيد جداً	B	ب	4.0	3.0
75 to less than 80	Above Average	جيد مرتفع	C+	ج+	3.5	2.5
70 to less than 75	Good	جيد	C	ج	3.0	2.0
65 to less than 70	High Pass	مقبول مرتفع	D+	د+	2.5	1.5
60 to less than 65	Pass	مقبول	D	د	2.0	1.0
Less than 60	Fail	راسب	F	هـ	1.0	0
-	In-Progress	مستمر	IP	م	-	-
-	In-Complete	غير مكتمل	IC	ل	-	-
-	Denile	محروم	DN	ح	1.00	0
60 and over	No grade-Pass	ناجح دون درجة	NP	ند	-	-
Less than 60	No grade-Fail	راسب دون درجة	NF	هد	-	-
-	Withdrawn	منسحب بغير	W	ع	-	-
-	Exemption	معفى	E	عف	-	-



Student Guide



<https://urlink.ai/eeoyKN>

Student Assessment
Procedures Guide



<https://urlink.ai/5RMTJt>

Student Rights Guide



<https://urlink.ai/QZdPep>

Umm Al-Qura University
Admission Guide



<https://urlink.ai/68CK6R>

Organizational guide to public
appearance



<https://urlink.ai/NJxpRg>

Code of Conduct and
Discipline Guide

The background of the page features a blurred image of a hand holding a thick stack of papers. Overlaid on this are two abstract geometric patterns: a network of interconnected dots and lines in the bottom left corner, and a series of concentric, wavy lines in the bottom right corner. The overall color palette is a muted teal or slate blue.

Departmental Guide



Academic Advising

Academic advising aims to organize the registration and guidance process for students, ensuring that they are guided to choose their courses correctly according to the approved plan, reducing academic difficulties, and achieving the targeted learning outcomes, within the framework of the university's regulations and systems.

Third: The Academic Advising Mechanism

1– Advising Before the Registration Period:

- Activating early academic advising to explain study plans and registration requirements.
- Clarifying approved academic regulations regarding dropping, adding, and withdrawal.
- Identifying academically struggling students and preparing appropriate plans for them.
- Coordinating with College advisors to unify advising mechanisms.

2– Advising During the Registration Period:

- Providing in-person advising hours to assist students.
- Reviewing study schedules and ensuring they align with the academic plan.
- Addressing schedule conflicts or shortages in available class sections.
- Monitoring the registration of students expected to graduate and giving them priority.
- Referring exceptional cases to the Department Head for appropriate decision-making.

3– Advising After the Registration Period:

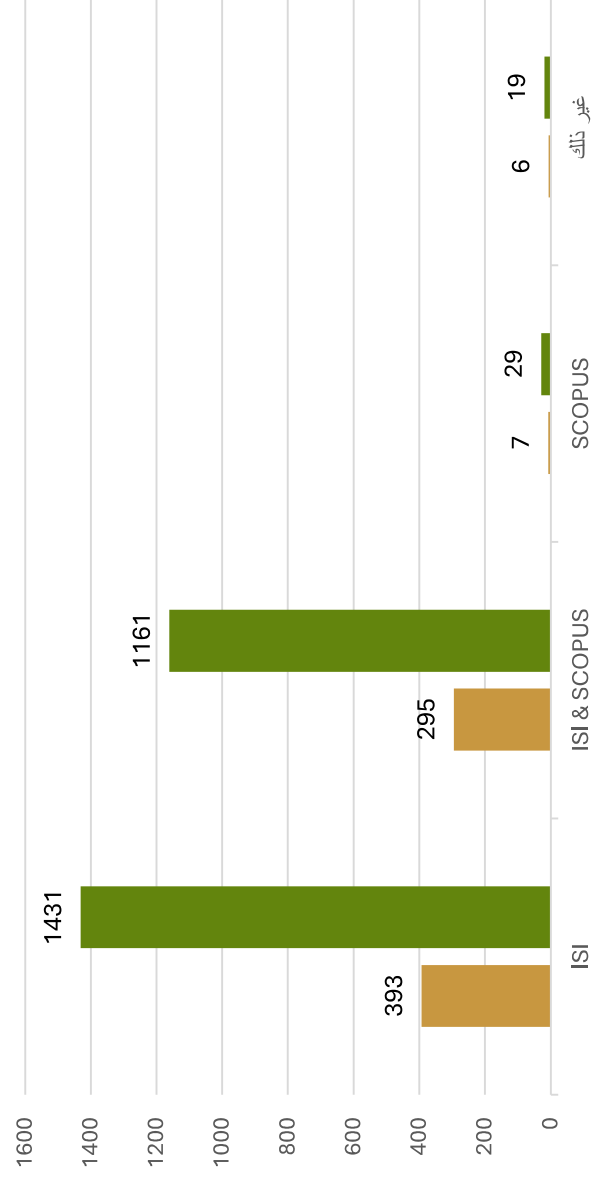
- Following up on the stabilization of study schedules.
- Ensuring that struggling students are registered in a manner that suits their specific situations.
- Providing academic and advisory support during the first weeks of the semester.

Scientific Research



The Chemistry Department is considered a leading department in scientific research, having maintained its leadership in research at the university level for many years and affirming its research and scientific excellence not only within the College of Science but also at the university level. Furthermore, the scientific publications of the Chemistry Department College members are characterized by their scientific rigor and specialized expertise, with research concentrated in scientific journals with high impact factors.

Statistics on Collected Scientific Publications



Graduation Projects



Graduation Project aims to help students develop research skills and acquire knowledge that will benefit their academic and professional careers.

Goals:

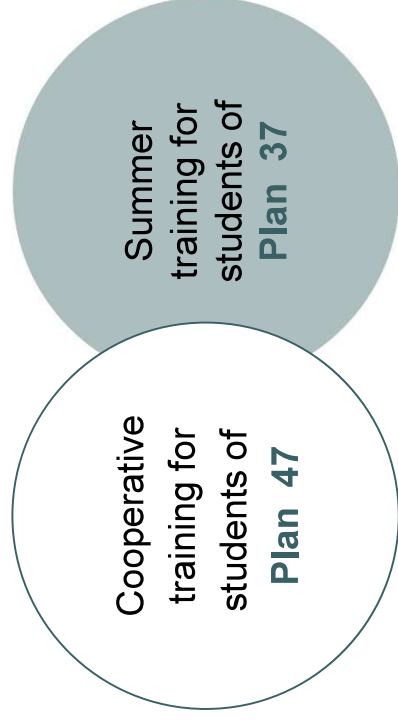
Students will be introduced to scientific research methods, including writing and using the library for periodicals and scientific magazines. They will develop research skills, gain hands-on experience with laboratory instruments, and enhance their ability to conduct experiments, analyze results, and apply scientific knowledge effectively.



Cooperative Training

The Cooperative Training Committee is concerned with contributing to the development of students' applied and professional skills by following up on student training matters in the labor market in a way that ensures the achievement of educational outcomes that are consistent with academic quality standards and labor market requirements.

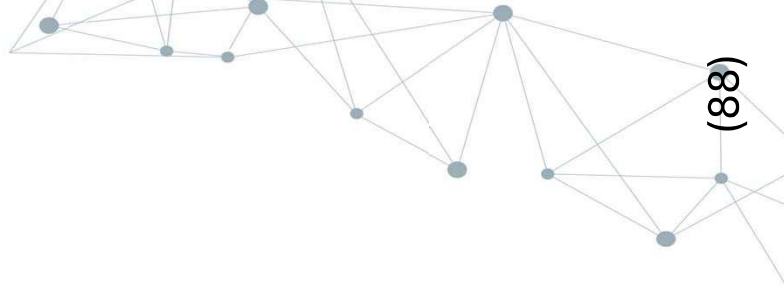
Types of training available to chemistry department students:



Student training period:

Summer training duration: 8 weeks, totaling 200-240 hours

Cooperative training duration: 6 months, totaling 600-800 hours





Objectives of cooperative training:

- Linking theoretical information with practical application in various training institutions.
- Gaining field experience in chemical production processes and quality control
- The training facility develops teamwork and communication skills within different work teams.
- Developing skills in handling laboratory equipment and instruments, for chemical analysis.
- Developing problem-solving and decision-making skills in work environments.
- Adherence to quality standards and effective implementation of professional health and safety work environments.
- Performance improvement solutions proposed and presented in the factory process for analyzing problems and capacity.

A background illustration featuring a hand holding a magnifying glass over a network diagram. The network diagram consists of various colored dots (blue, orange, yellow) connected by thin lines, forming a complex web. The hand is positioned at the bottom right, with the magnifying glass focusing on the center of the network. The overall style is clean and professional, with a light blue and white color palette.

Key skills acquired:

- Operating and monitoring chemical production processes in the work environment.
- Performing basic and advanced chemical analyses.
- The skill of taking, analyzing, and documenting samples according to quality standards.
- Preparing and writing daily and weekly technical reports.
- Working within multidisciplinary teams for production, quality, safety, and laboratory.
- Apply the principles of periodic maintenance for devices, if possible.
- Adherence to quality management systems and health and safety standards such as ISO systems and others.

Key expected outcomes:

- The ability to perform work tasks within the work environment efficiently and professionally.
- Full familiarity with the chemical production cycle within the training facility and the tasks of the various departments.
- Writing documented technical and analytical reports on operations and activities within the facility.
- Contributing to improving work efficiency or product quality through applied research.
- Applying chemical safety standards and reducing occupational hazards at the work site.
- To present a final, professional presentation summarizing the training experience and acquired expertise.

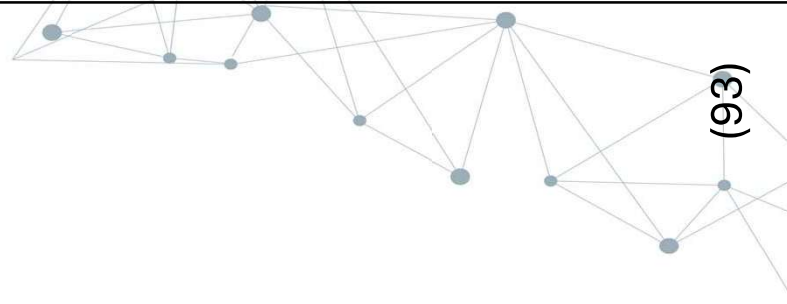
Our partners in student training:

n	Name of training institution
1	Municipality of Makkah Al-Mukarramah (Holy Capital Municipality)
2	Saudi Food and Drug Authority (SFDA)
3	Criminal Evidence Division – Makkah Police
4	Forensic Toxicology Services Department
5	Forensic Toxicology Services Department – Forensic Medical Services Center
6	Saudi Geological Survey
7	National Center for Environmental Compliance
8	National Water Company (NWC)
9	ACWA Power
10	National Water Company
11	Safa Makkah Water Company Factory
12	Al-Umrah Water Factory
13	Match Water Bottling Factory
14	Rowad Quality and Safety for Food Consultation Services Company
15	Abu Al-Jadaye Factory
16	Al-Amoudi Beverage Manufacturing Company
17	Aqwat Food Industries Company
18	United Sugar Company – Savola Group
19	Middle East and North Africa Beverage Manufacturing Company
20	Americana Food Company
21	Quality Standards Laboratory
22	Sarh Examinations for Technical Consultations and Laboratories Company
23	Medical Solutions Company
24	Arab Pharmaceutical Products Company
25	Jamjoom Pharma

n	Name of training institution
26	Sedana International Company Ltd
27	Al-Ettifaq Steel Industries Company
28	FOSAM Company Ltd
29	Saudi Arabian Glass Company
30	Sala Paper Products Factory
31	Al-Ettifaq Steel Industries Company – Makkah Branch
32	Saudi Perfume Factory
33	Mohammed Ali Abu Dawood and Partners for Industry Company
34	ABSCO
35	Arab Chemical Company (Polystyrene) Ltd
36	Johnson Saudi Arabia
37	AICsteel
38	United Carton Industries Company
39	SABIC – YANSAB
40	Saudi Concrete Company
41	Primary Health Care Centers
42	Tanomah General Hospital
43	Awad Al-Bishri Hospital
44	Maternity and Children Hospital – Makkah
45	Al-Huda Medical Complex – Makkah
46	King Abdullah Medical City
47	Shifa Charity Association
48	Al-Noor Hospital
49	Al Farabi Medical Laboratories
50	Energy and Water Academy

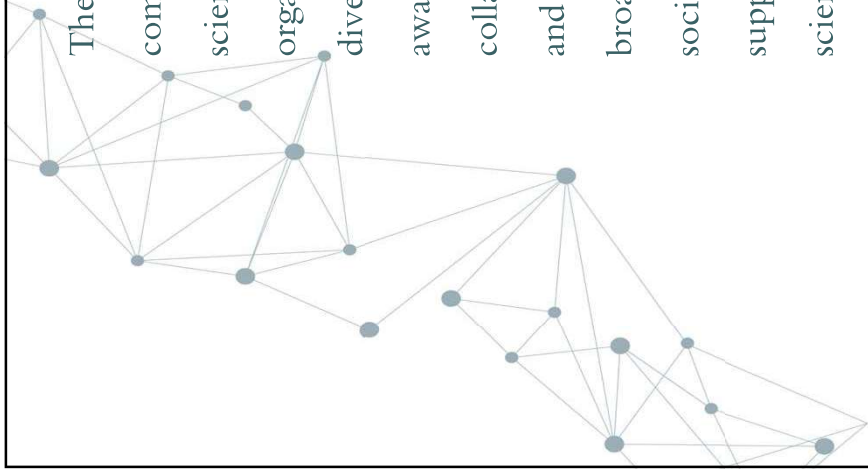
Key training courses offered to trainees in collaboration with the Training Committee at the College of Science, as part of the pre-training plan and prior to the start of field training:

n	Course Name
1	What is training?
2	Cooperative training charters: between regulations and commitment
3	Field training between supervisor, trainer, and student
4	Effective communication skills
5	Resume writing skills
6	Time management
7	What happens after the cooperative training acceptance stage?
8	The importance and guidelines of cooperative training
9	Professional excellence: Building skills and work ethics
10	Report writing: essential skills and tools
11	Essential skills for writing cooperative training reports
12	How to build a strong presence on LinkedIn
13	Essential presentation skills



Community Partnership and Social Responsibility





The Chemistry Department places great importance on its role in community service and promoting scientific awareness across various scientific fields. College members and students actively participate in organizing and implementing a number of activities and events targeting diverse segments of society in the areas of health and environmental awareness, as well as science education. These activities are conducted in collaboration with the Volunteer Work Platform, enabling the institutional and organized development of community initiatives. This contributes to broadening students' community engagement and fostering their sense of social responsibility. These events are also linked to learning outcomes that support communication skills, teamwork, and the practical application of scientific knowledge. The department is committed to documenting all activities and events annually through its Volunteer Work and Community Responsibility Committee. Periodic reports are prepared reflecting the level of participation and the quality of the implemented initiatives, thus contributing to impact measurement and continuous improvement. These activities represent an extension of the department's academic role and embody the integration of education with community service, thereby strengthening the department's presence within its social and scientific environment.



Laboratories and Facilities



The Chemistry Department boasts a comprehensive laboratory system that serves as a cornerstone for supporting education, training, and scientific research. The department comprises a total of 29 laboratories, distributed between the male students' section in Al-Abidiyah (12 laboratories) and the female students' section in Al-Zahir (7 laboratories). These laboratories are designed to cover various branches of chemistry, fostering integration between theoretical and applied aspects and contributing to enhanced practical training and research.

In the male students' section in Al-Abidiyah, the laboratories are organized according to specific specializations. These include general chemistry laboratories dedicated to foundational courses and experiments for preparatory students; organic chemistry laboratories focused on the study of organic compounds and their reactions; and inorganic chemistry laboratories for the study of the structure and properties of inorganic compounds.

The section also houses analytical chemistry laboratories dedicated to quantitative and qualitative analysis techniques; physical chemistry laboratories for the study of thermodynamics and chemical kinetics; and specialized laboratories for industrial and environmental chemistry, thus strengthening the connection between scientific outputs and practical applications. The department also supports research through dedicated laboratories in various fields such as advanced analysis, applied chemistry, and materials science.

The female students' section in Al-Zahir includes seven well-equipped scientific laboratories serving the department's various specializations. These laboratories provide a comprehensive educational and practical environment that contributes to developing laboratory skills and enhances students' research capabilities in different areas of chemistry. This integrated laboratory infrastructure reflects the department's commitment to providing an advanced scientific environment that supports the quality of educational outcomes and contributes to preparing qualified professionals capable of keeping pace with scientific advancements and serving the community.

Accessing the laboratory
equipment file





<https://uqu.edu.sa/chmsscimm>



chmsscimm@uqu.edu.sa



chmsscimf@uqu.edu.sa



0125270000 (ext.3695)

Chemistry Department – College of Sciences - Umm Al-Qura University