



COLLEGE OF
SCIENCES

ANNUAL REPORT

2022-2023

Introduction

Established in 2008, when the College of Arts and Sciences was split into two separate colleges, the College of Sciences (COS) at the University of Sharjah (UoS) consists of four departments after the Department of computer science joined the College of Computing and Informatics. The College of sciences offers Bachelor's degrees in the following majors: Applied Biology, Chemistry Applied, Mathematics, applied physics, and remote sensing. In addition, the COS offers several postgraduate programs in Applied Biology, chemistry, and applied physics. The college plans to open more postgraduate programs in applied biology, chemistry, mathematics and, Applied Physics. In addition, the College offers service courses to many students in the first and second years in other Colleges. For example, the combined enrollment in the first- and second-year Physics, Mathematics, Chemistry, and Biology, theoretical and practical courses were over 10,000 students in the fall and spring of 2020/2021.

The College also strives to elevate the standards of academic research in various advanced areas of research, teaching, and learning. As highlighted in the subsequent sections of the strategic plan, the CoS aims to spread, disseminate, and foster research through collaborations with local, regional, and international institutions.

1. Mission, Organization and Governance

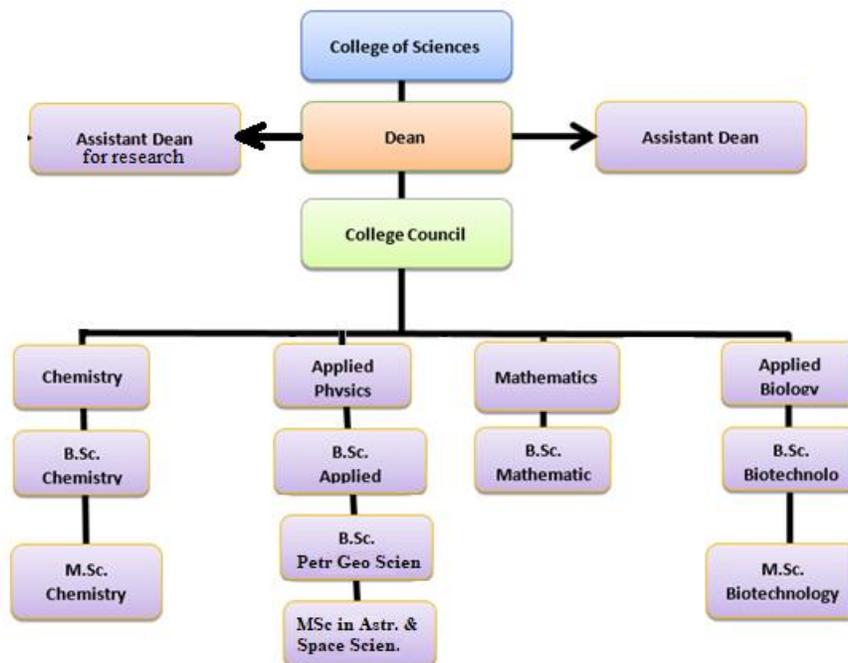
College Vision:

The College of Sciences at the University of Sharjah envisions itself as a vibrant scientific and educational institution that is open and welcoming, creative and adaptable, dynamic, and regionally renowned for excellence in education, research, and community outreach programs for improving the nation and the world through its graduates, scientific discoveries, and outreach programs.

College Mission:

The College of Sciences is the home of the basic sciences at the University of Sharjah, one of the region's leading universities. Faculty, staff, and students work collectively to create, share, and apply knowledge in the basic sciences.

College and Department Organization Charts:



University Level Committees

#	Committee Title
	"Faculty Members Housing Committee" - Chair: Dr. Ayssar Nahle (Chemistry Department)

1.	The First Sharjah International Conference on Physics of Advanced Materials (SICPAM 2023), Members: Racha Al-khoury, Bassam, Nawal, Omar, Tahani, Rachik Soualah ,Bashir Suleiman
2.	“Institutional Effectiveness and Accreditation Council” – Member: Prof. Abdelnasser Kawde
3.	Central Committee of Student Councils Hamza
4.	Member Mona Kanj in the “Youth engagement Committee” a subcommittee of the “Women Research Outreach Committee”. Chair: Dr. Manar Abu Talib, Dr. Mahreen Arooj
5.	Alumni Association Office Committee Members: Racha Al-Khoury
6.	The 14th Arabic Conference of the Arab Union for Astronomy and Space Sciences Committee members: . Nouar, Hussain Almehti, Mashhoor, Ilias, Awni, Omar, Bassam, Nawal, Tahani,
7.	Faculty affairs committee (Mounir)
8.	Steering committee of the MSc in GIS and remote sensing Mounir “member”, Mashhoor “member” Nizar “member, Dr. Abdelaziz Elgamouz
9.	Steering committee of the MSc in Astronomy and Space sciences (Mashhoor “Coordinator” Mounir “member”, Antonios Manousakis “member”, Mejd Almheiri “member”
10.	Scientific and administrative committee for the Sharjah Academy for Astronomy, Space sciences and technology, Mounir “member”, Mashhoor “member”
11.	The Third Forum of Arab and Russian Universities of the Federation of Arab Universities, Organizing Committee Members: Racha Al-Khoury
12.	University Advisory Council Members: Prof. Elsiddig Elsheikh
13.	Study plan and Curriculum committee Members: Prof. Elsiddig Elsheikh
14.	University Graduate Studies Council Members: Dr. Abdelaziz Tlili
15.	Student Success and Academic Advising Committee College of Science Members: Dr. Khalid Bajou
16.	Lab Safety Committee Mahmoud Abu Sahammeh, Dr. Ban Al-Joubori, Dr. Abdelaziz Elgamouz
17.	College Student development committee Antonios Manousakis
18.	University Grievance Committee – member Prof. Bassim Attili
19.	Electrical and Computer Ph. D. Committee– Prof. Bassim Attili - Coordinator

- **COLLEGE AND DEPARTMENT COMMITTEES**

College Committees

<p>1. The Curriculum Committee (CCC):</p> <p>Prof. Ismail Saadoun Chairman</p> <p>Prof. Elsiddig Elsheikh</p> <p>Prof. Raed Al Qawasmeh</p> <p>Dr. Gehad Sadeq</p> <p>Dr. Mohammad Al Akhras</p>
<p>2. Formation of the Outreach Committee</p> <p>Prof. Ideisan Abu-Abdoun Chairman</p> <p>Prof. Ali El Keblawy</p> <p>Dr. Hafsa Khurshid</p> <p>Dr. Mohamad Saleh Bataineh</p>
<p>3. Formation of the Laboratory and Safety committee</p> <p>Dr. Aysar Nahle Chairman</p> <p>Dr. Ban Al Joubori</p> <p>Mrs. Nawal Nayfeh</p>
<p>4. Formation of the Student Success and Academic Advising committee</p> <p>Prof. Bassem Atilli Chairman</p> <p>Dr. Ahmad Al-mahdai</p> <p>Dr. Hachemi Benaoum</p> <p>Dr. Khalid Bajou</p>
<p>5. Formation of the Class Schedules and Examination Committee</p> <p>Mr. Omar Adwan Chairman</p> <p>Prof. Muhamad Islam</p> <p>Dr. Muhammad Nasir Khan</p> <p>Mrs. Azeera Abdul Rahim</p>
<p>6. Formation of the College Website Committee</p> <p>Mrs. Uzma Khan Chairman</p> <p>Dr. Kais Daoudi</p> <p>Dr. Marwan Al-Momani</p> <p>Mrs. Mona El-Harakeh</p> <p>Ms. Batoul Majed Karzoun</p>
<p>7. Formation of the Strategic Planning and Annual report Committee</p> <p>Prof. Mostafa Zahri Chairman</p> <p>Dr. Abdelaziz AL-Gamouz</p> <p>Dr. Yassir Abdu</p> <p>Dr. Ban Al Joubori</p> <p>Mrs. Racha Al-Khoury</p> <p>Ms. Batoul Majed Karzoun</p>

14. Committee Msc. Program in Biology entrepreneurship

Dr. Hassen Hadj Kacem (Chair),
Professor Elsiddig Ahmed Elsheikh
Dr. Mona Hassuneh

• Departmental Committees

Department of Mathematics

DEPARTMENT COMMITTEES 2022/2023	
1.	Student Affairs, Alumni and Tutorial Committee <ul style="list-style-type: none">• Dr. Mohammad Bataineh• Prof. Basem Attili
2.	Curriculum Committee <ul style="list-style-type: none">• Prof. Ali Jaballah• Dr. Mohammed Al-Akhrass• Dr. Marwan Al Momani
3.	Examinations Committee <ul style="list-style-type: none">• Prof. Muhammad Islam• Mrs. Kholoud Mustafa
4.	Teaching Schedule and Online Teaching Committee <ul style="list-style-type: none">• Dr. Mohammed Al-Akhrass• Dr. Aziz Takhirov
5.	Community Service and Social Committee <ul style="list-style-type: none">• Dr. Aziz Takhirov• Mrs. Kholoud Mustafa• Prof. Mahmoud Ben khalifa• Mrs. Nida Sidiqi
6.	Scientific Research and Seminar Committee <ul style="list-style-type: none">• Prof. Belkacem Said-Houari• Prof. Mahmoud Ben Khalifa• Dr. Aziz Takhirov• Dr. Zahid Raza
7.	Accreditation and Academic Plans <ul style="list-style-type: none">• Prof. Ali Jaballah and Dr. Firas Ghanim• All members of the department
8.	Student Advising Committee <ul style="list-style-type: none">• Dr. Zahid Raza• Dr. Mohammad Bataineh
9.	Annual report and Strategy Planning Committee

	<ul style="list-style-type: none"> • Prof. Mostafa Zahri • Prof. Muhammad Islam
10.	<p>Conference and workshop Committee</p> <ul style="list-style-type: none"> • Prof. Salim Messaoudi • Prof. Basem Attili • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane • Prof. Mahmoud Ben khalifa • Prof. Mostafa Zahri • Prof. Belkacem Said-Houari • Dr. Zahid Raza • Dr. Mohammed Al-Akhrass • Dr Marwan Al Momani • Mrs. Nida Siddiqui
11.	<p>Program Assessment Report Committee</p> <ul style="list-style-type: none"> • Prof. Abdelaziz Soufyane • Prof. Ali Jaballah
12.	<p>Departments Website and software Committee</p> <ul style="list-style-type: none"> • Mrs. Nida Siddiqui (English) • Dr Marwan Al Momani (Arabic)
13.	<p>Internship and Training Committee</p> <ul style="list-style-type: none"> • Dr. Marwan Al Momani • Dr. Firas Ghanim
14.	<p>Library, Computing Resources, and Educational Technology Tools Committee.</p> <ul style="list-style-type: none"> • Prof. Mahmoud Ben khalifa • Dr. Firas Ghanim • Dr. Mohammed Al-Akhrass
15.	<p>Outreach Committee.</p> <ul style="list-style-type: none"> • Mrs. Kholoud Mustafa • Mrs. Nida Siddiqui
16.	<p>Council secretary Prof. Basem Attili</p>
17.	<p>Department representative in the college council</p> <ul style="list-style-type: none"> • Prof. Mostafa Zahri

Applied Biology department.

Department Committees

	<p>Curriculum & Accreditation Chair: Prof. Ismail Saadoun Members: Prof. Elsiddig Elsheikh, Prof. Ali El-Keblawy, Prof. Ihsan Mahasneh, Dr. Hassen Hadj Kacem, Dr. Muna Hassuneh, Dr. Abdullah Al Mutery, Dr. Abdelaziz Tlili</p>
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	Post- Graduate Study Members: Prof. Elsiddig Elsheikh, Ali El-Keblawy, Dr. Abdelaziz Tlili, Hassen Hadj Kacem
	Teaching Load and Exam Schedules Chair: Dr. Muhammad Nasir Khan Members: Uzma Inayat, Racha Al-Khoury, Islam Eltayeb
	Budget Chair: Dr. Mona Hassuneh Members: Ali El-Keblawy, Khalid Bajou, Dr. Hassen Hadj Kacem, Dr. Ban Al-Joubori
	Student's Advising and Training Chair: Dr. Khalid Bajou Members: Dr. Abdelaziz Tlili, Dr Abdullah Al Mutery, Dr. Hassen Hadj Kacem
	Laboratories, Safety and Physical Plan Chair: Dr. Ban Al-Joubori Members: Dr Abdullah Al Mutery, Dr. Hassen Hadj Kacem
	Conferences and Seminars Chair: Members: Racha Al-Khoury, Dr Abdullah Al Mutery, Dr. Hassen Hadj Kacem
	Annual Report and Strategic Plan Chair: Dr. Ban Al-Joubori Members: Uzma Inayat, Racha Al-Khoury, Islam Eltayeb, Tasneem Obaid
	Students, Social Affairs and Website Chair: Tasneem Obaid Member: Racha Al-Khoury, Uzma Inayat, Islam Eltayeb
	AD HOC: 13th BSE Chair: Dr. Ban Al-Joubori Members: Racha Al-Khoury, Uzma Inayat, Islam Eltayeb, Tasneem Obaid

Department of Physics

Department Committees

Committee	Members
Schedule and exams	Mounir Chairman Hachemi Benaoum Hamdan Hamdan Omar Adwan Hussain Alawadhi
Accreditation and Academic Plans	Gehad Sadiek Chairman Rachik Soualah Hichem Eleuch Hamdan Hamdan Antonios Manousakis Mounir Kaidi

Employment and Promotion	Ad Hoc committee
Conferences and Symposia	Rachik Soualah Chairman Omar Adwan Hafsa Khurshid Gehad Sadiak Nezar Hammouri
Research Committee	Daniil Moraitis Chairman Hichem Eleuch Amine Ahriche Oleg Olendski Bashir Suleiman Antonios Manousakis Gehad Sadiak
Library, Computing Resources, and Educational Technology Tools	Yassir Abdu Chairman Hachemi Benaoum Kais Daoudi Oleg Olendski Nezar Hammouri Hussain Alawadhi
Committee for “Teaching Laboratories”	Mounir Chairman AbdulRaheem Khudada Bassam Rashed Nawal Nayfeh Moh’d Hamza Tahani AL Sarayreh Omar Adwan Saja Abdulhadi
Community Outreach	Hafsa Khurshid Chairman Abdul Raheem Khudada Moh’d Hamza Muhammad Azeem
Website Committee	Kais Daoudi Chairman Bashir Suleiman Mohamed Abdel-Fattah Antonios Manousakis Bento Joseph Mariam Alnaqbi
Social Committee	Bassam Rashed Chairman Nawal Nayfeh Tahani AL Sarayreh Saja Abdulhadi Khadija Al hosani

	Taghreed Abdalla Mariam Alnaqbi
Department representative in college council	Mohamed I. Abdel-Fattah
Council secretary	Mohamed Hamza

Department of Chemistry

#	Committee Title
1.	Quality Assurance, Curriculum & Accreditation Committee <i>Chair:</i> Prof. Raed Al-Qawasmeh <i>Member:</i> Dr. Ihsan Shehadi, Prof. Abdel Nasser Kawde, Dr. Kamrul Hasan, Dr. Ahmad Al-Mahdi
2.	Chemistry safety and Laboratory Equipment <i>Chair:</i> Dr. Ayssar Nahle <i>Members:</i> All academic and, Mrs. Kifah A-Taqaz, Miss Hajar Ibrahim
3.	Course Scheduling and Examination <i>Committee Chair:</i> Mrs. Azeera Abdul Rahim <i>Members:</i> Mrs. Kifah A-Taqaz, Mrs. Ayesha Mohammed, Miss. Alaa Bihi Mr. Amin Hasan Botmah, Mr. Mohamad Al-Farooq
4.	Community Services, Outreach and Social Committees <i>Chair:</i> Dr. Ideisan Abu-Abdoun <i>Members:</i> Dr. Ahmad Almehdi, Dr. Mahreen Arooj, Mr. Ibrahim Abdel-Rahman Mrs. Mona El-Harakeh, Mrs. Azeera Abdul Rahim, Mrs Reem Alteneiji, Mr. Mohamad Al-Farooq, Mr. Ali Hussam Al-Samarrai, Mrs. Muna Hassan
5.	Scientific Research Committee <i>Chair:</i> Prof. Raed Al-Qawasmeh <i>Members:</i> Dr. Abdelaziz Elgamouz, Dr. Kamrul Hasan, Dr. Samar Damiaty, Dr. Tanveer Ul Haq, Dr. Mahreen Arooj
6.	Seminar Committee <i>Chair:</i> Dr. Mohamed El Naggat

	Members: Nemat Dek AIBAb, Dr. Tanveer ul Haq
7.	<p>Teaching and Scheduling</p> <p><i>Chair:</i> Nemat Dek AIBAb Members: Dr. Samar Damiati, Miss Hajar Ibrahim, Mr. Amin Hasan Botmah, Mrs. Mona El-Harakeh</p>
8.	<p>Chemistry Website Committee</p> <p><i>Chair:</i> Mrs. Mona Kanj</p> <p><i>Members:</i> Mr. Ibrahim Abdel-Rahman, Mrs. Azeera Abdul Rahim, Mrs. Aisha Mohammed, Mr. Amin Hasan Botmah, Mrs. Reem Al-Teneiji</p>
9.	<p>Editorial Board for CAM magazine</p> <p><i>Chair:</i> Dr. Kamrul Hasan</p> <p><i>Members:</i> All Ph.D. Holder are members in the editorial board, Mrs. Azeera Abdul Rahim, Mr. Mosab Hasan.</p>
10.	<p>Social Support Committee</p> <p><i>Chair:</i> Mrs. Muna Hassan</p> <p><i>Members:</i> All department members</p>
11.	<p>Annual Report and strategic planning Committee</p> <p><i>Chair:</i> Dr. Abdelaziz Elgamouz</p> <p><i>Members:</i> Dr. Samar Damiati, Dr. Tanveer Ul Haq, Mr. Ibrahim Abdel-Rahman Mrs. Ayesha Mohammed</p>
12.	<p>Student Association Committee (Students Chemical Society)</p> <p><i>Chair:</i> Dr. Ahmad Al-Mahdi</p> <p><i>Member:</i> Dr. Mohamed El Naggar, Dr. Mahreen Arooj, Mrs. Ayesha, Mohammed, Miss Reem Al-Teneiji, Miss Hajar Ibrahim, Mrs. Alaa Bihi</p>
13.	<p>Career and Graduate Students' advising committee</p> <p><i>Chair:</i> Prof. Abdel Nasser Kawde</p> <p><i>Member:</i> Dr. Ahmad Al-Mahdi, Mrs. Mona El-Harakeh, Ms. Alaa Bihi, Mrs. Muna Hassan.</p>
14.	Postgraduates Study committee

	<p><i>Chair:</i> Prof. Monther Khanfar</p> <p><i>Member:</i> Dr. Ihsan Shehadi, Dr. Ahmad Al-Mahdi, Prof. Abdel-Nasser Kawde, Prof. Raed Al-Qawasmeh, Dr. KamrulHasan</p>
15.	<p>General Chemistry (1) coordination committee-Fall</p> <p><i>Chair:</i> Dr. Kamrul Hasan</p> <p><i>Member:</i> Dr. Ayssar Nahle, Dr. Ahmed AlMehdi, Dr. Abdelaziz Elgamouz and Dr. Mahreen Arooj</p>
16.	<p>General Chemistry (1) Lab coordination committee-Fall</p> <p><i>Chair:</i> Mrs. Mona Kanj</p> <p><i>Member:</i> Mrs. Azeera Abdul Rahim, Dr. Tanveer ul Haq</p>
17.	<p>Gen. Chem. (HS) Lab coordination committee-Fall</p> <p><i>Chair:</i> Dr. Mahreen Arooj</p> <p><i>Member:</i></p>
18.	<p>Gen. Chem. (HS) coordination committee-Fall</p> <p><i>Chair:</i> Dr. Mahreen Arooj</p> <p><i>Members:</i> Dr. Tanveer ul haq</p>
19.	<p>Org. Chem. (HS) coordination committee-Fall</p> <p><i>Chair:</i> Prof Raed Al-Qawasmeh</p> <p><i>Member:</i> Mrs. Azeera Abdul Rahim</p>
20.	<p>Gen. Chem. (1) (MS) coordination committee-Fall</p> <p><i>Chair:</i> Dr. Mohamed El-Naggar</p> <p><i>Members:</i> Prof. Ideisan, Prof Raed AL-Qawasmeh</p>
21.	<p>General Chemistry (1) coordination committee-Spring</p> <p><i>Chair:</i> Dr. Kamrul Hasan</p> <p><i>Member:</i> Prof. Ideisan Abu-Abdoun, Dr. Ayssar Nahle, Dr. Mohamed Elnaggar and Dr. Tanveer ul Haq</p>
22.	<p>General Chemistry (1) Lab coordination committee-Spring</p> <p><i>Chair:</i> Mrs. Azeera Abdul Rahim</p> <p><i>Member:</i> Dr. Mahreen Arooj</p>
23.	<p>Gen. Chem. (HS) Lab coordination Committee-Spring</p> <p><i>Chair:</i> Ibrahim Abdel-Rahaman</p>

	<i>Member: Dr. Mahreen, Dr. Samar, Mrs. Aisha and Dr. Ines</i>
24.	Gen. Chem. (HS) coordination Committee-Spring <i>Chair: Dr. Tanveer ul Haq</i> <i>Members: Dr. Mahreen Arooj, Dr. Samar Damiati</i>
25.	Gen. Chem. (1) (MS) coordination Committee-Spring <i>Chair: Dr. Mohamed El-Naggar</i> <i>Members: Prof. Raed AlQawasmeh</i>
26.	Gen. Chem. (2) (MS) coordination Committee-Spring <i>Chair: Dr. Ahmad Al-Mahdi</i> <i>Members: Samar Damiati</i>
27.	Gen. Chem (MS) Lab coordination Committee-Spring <i>Chair: Mrs. Mona Kanj</i> <i>Members: Mrs. Azeera Abdul Rahim</i>
28.	Chemistry Senior Project Coordination Committee - Spring <i>Chair: Prof Abdelnasser Kawde</i> <i>Member: Dr Abdelaziz Elgamouz, Dr Mahreen Arooj, Dr Kamrul Hasan, Dr. Ahmed Almahdi, Dr. Samar Damiati.</i>
29.	Postgraduate Research Project Coordination - Spring <i>Chair: Abdelnasser Kawde</i> <i>Members: Abdelaziz Elgamouz</i>
30.	Ad hoc committee for forensic certificate. <i>Chair: Abdelnasser Kawde</i> <i>Members: Abdelaziz Elgamouz, Aysar Nahle</i>
1.	Ad-hoc committee - Self-study for Renewal of Program Accreditation of Master of Science in Chemistry <i>Chair: Abdelnasser Kawde</i> <i>Members: Samar Damiati</i>

Summary of the College involvement in the University/College/Department committees:

Department	#faculty members (PhD & MSc) (full time)	University Committee	College Committee	Department Committee	Total	#committees per faculty
Chemistry	19	12	31	31	74	3.89
Applied Biology	14	8	21	10	39	2.79
Mathematics	17	12	12	10	34	2.00
Applied Physics	33	11	23	12	46	1.39
Total	78	12	56	74	220	2.821

*total faculty involved in all committees

2. Quality Assurance

College Strategic Directions (Brief):

Student Goal

Enhance student advisory and support for academic achievement.

% Reduction in the number of students under academic probation

- Increase the number of one to one advising meetings with students
- Organize student's orientation at the beginning of each semester
- Identify students at risk (GPA 2.5 and less) to be monitored and advised in advance
- Establish counseling program to help students with personal issues
- Implement creative solutions (software, online resources.....etc.).
- Peer to peer supporting program

% on-time student graduation

- Conducting 2 meetings /year for students with GPA <2.5 students
- Implement online advising system/protocol

Evidence

Pics and minutes of meetings

Average number of students advising sessions

- Implement 4 advisory one to one meeting per year for students with GPA<2.5.

Evidence

Advisory forms+pics

% Reduction of student academic drop out

- Conduct content survey of courses by students as one survey/course/year
- Establish Science Center to assist under achieved students in attaining better academic status through one-one tutoring

Evidence

Copies and analysis of surveys

Pics and students records

Make the University of Sharjah campus friendlier and welcoming for all, focusing on the wellbeing of students.

% Student Satisfaction

- Implement 2 extra-curricular activities per semester per Department
- Broadcast important scientific and social events (Nobel prize, ceremony,. Scientific breakthrough,

Evidence

pictures

% of chemistry students *actively* participating in Department and community outreach activities.

- Establish 4 centers/activity rooms for Scientific societies in the College
- Update all bulletin boards and signage 4-time year

Evidence

Pictures and locations

People Goal

Enhance employee wellbeing, safety and healthcare

% Employee Satisfaction (Faculty and Professional Staff)

- Provide one first aid kits in each unit of the college facilities

Evidence

Pictures

Recruit, develop, retain talented faculty and professional staff.

- Organize annual workshop to all faculty and staff on professional development

Evidence

Pictures and agenda

Innovation Goal

Unify and integrate IT systems to serve the education, research and operation activities.

Organize one workshop on learning/teaching methodologies and assessment per year

- Organize one workshop on learning/teaching methodologies and assessment per year

Evidence

Pictures and agenda

Unify and integrate IT systems to serve the education, research and operation activities. Interdisciplinary workshops

- Create a box innovation ideas

Evidence

Pictures and reports

Research Goal

Support and reward researchers, while engaging students

% increase the quality (Q1 and Q2) publications.

- Establish 1 MoU with International Collaboration and with other institutes. Transfer of knowledge and strengthen collaboration.

Evidence

Copies of MoU's and pictures

% increase the quantity of peer reviewed publications.

- Establish annual awards for the highest five most published faculty members in the College

Evidence

Copies of Certificates and CVs

Industry and Community Goal

Communicate and collaborate more effectively with society to Increase local,

Average number of advisory board meetings

- Held one meeting per year
- Annual Review of courses content based on industry's need and advisory board recommendation

Evidence

Course and Program Assessment report

regional and international relations in order to foster research and innovation through collaboration.

% Active participation of Department MOU(s)

- Organizing one workshop per year with existing MOUs
- Involve one exchange faculty/student in the academic/research programs of the college from institutions with signed MoUs

Evidence

Pictures and reports

Communicate and collaborate more effectively with society to Increase local, regional and international relations in order to foster research and innovation through collaboration.

of college and community outreach activities

- Conduct 4 industrial visits per year per Department
- Organize a research day per year where distinguished keynote figures from Local Industries/institutions are invited

Evidence

Published program and pictures

Teaching and Learning Goal

% of courses (teaching units) utilizing blended learning

- Hold one workshop per year on recent advances and trends in science education for faculty members

Evidence

Advertised program, certificates and pics

% of courses (*teaching units*) utilizing active learning strategies.

- Adopt active learning in various department activities and courses such as training, exhibition, seminars and visiting speakers, research project, field trips, and laboratory courses.

% of undergraduate courses (*teaching units*) with research activities.

- Hold one workshop per year about active learning strategies for faculty members.
- Add items to the Students Evaluation Form about practicing active /blended /problem based/smart learning methods.

Evidence

Surveys and analysis

% of overall satisfaction with course (*teaching units*) experience.

- Make the participation in research activities oriented by the instructor as one essential assessment tool in one additional senior course each year. At least 25% of the final assessment is based on the research component of the course.

Evidence

Course Assessment report and exams

% of overall satisfaction with course (teaching units) experience

- Annual review of course delivery based on formal students reviews in the course surveys

Evidence

Course Assessment report and analysis

Review, develop and accredit academic programs to meet the 21st century job market.

% of internally reviewed academic programs.

Obtain full accreditation of one new Master program% of nationally accredited academic programs.

- Obtain full accreditation of one new Master program

Evidence

Copies of the files and receipt by the DQAIEA

% of nationally accredited programs implemented (*within one year of receiving initial accreditation*).

- Submit the business plan of two Ph. D programs

Evidence

Copies of the files and receipt by the DQAIEA

% of eligible academic programs achieving international accreditation.

- Apply for the international reaccreditation From ABET of 1 additional undergraduate program
- Apply for renewal of 3 ABET accredited programs

Challenges and Constraints

The main challenges in achieving the goals set by the College:

- 1- High teaching load of the Faculty members.
- 2- More full-time faculty members are needed
- 3- Not all students are involved in research activities
- 4- Instructors are not fully involved in research activities because research is not considered as part of their annual evaluation
- 5- Advanced instrumentations are needed to conduct applied research
- 6- Lack of some advanced instrumentations
- 7- Seed and individual grants are not enough to support high quality research
- 8- More training session need to be conducted by the central laboratory units.
- 9- Competition from exiting universities in UAE and from the newly established ones.
- 10- Risk to the stability of financial support.
- 11- No sabbatical leave
- 12- Slow and lengthy purchasing procedures
- 13- Restriction on importing some chemicals
- 14- Lengthy publishing routine
- 15- Lack of graduate students and research assistants.
- 16- Highly competitive research funds
- 17- Lack of suitable research equipment and laboratories
- 18- Weak research exchange program

- 19- Lack of administrative help in recruiting research grants
- 20- Increase the student enrollment in College of Sciences.
- 21- Attract more male students to the College.
- 22- Get approval for the submitted proposal for a Master's program in Mathematics.
- 23- Start an undergraduate program in Statistics.

SWOT Analysis

Teaching & Learning	Research	Community Service	Strengths
○	○	○	High quality faculty.
○	○		Accredited CS undergraduate and graduate programs.
○	○		Good faculty-student ratio in both graduate and undergraduate classes.
○			High quality M.Sc. program as perceived by our students.
	○		M.Sc. Program succeeded in attaining an average of 1-2 papers per student in scholarly publications in the past 10 years
	○	○	Faculty members are involved in different funded research groups.
	○		Faculty members are collaborating with researchers from other departments/universities.
○	○		Faculty members have diverse educational background with Ph.D. from, for example, USA, UK, Canada, Japan, and Germany.
○			Multi-national intake of students.

Teaching & Learning	Research	Community Service	Weaknesses
○	○		Student's recruitment activities for B.Sc. and M.Sc. programs require strengthening.
○	○	○	Heavy teaching load.

O	O		Faculty salaries and benefits - compared to other computer-related departments within UOS - are not competitive enough to attract and retain high caliber faculty.
	O		Shortage of physical space for research laboratories.
O			Low enrollment in both undergraduate and graduate programs.
O			Insufficient technical support.
	O		Lack of research assistants.
O	O	O	Constraints in decision-making.
O			Inadequate nonacademic activities for students on campus.

Challenges and Constrains:

Teaching & Learning	Research	Community Service	Opportunities
	O		External research funds, such as the ICT Fund.
	O		Availability of UOS project funds (although crippled by current policies).
O	O	O	Current economic boom in the UAE.
O			Availability of governmental scholarships for students.
O			Multi-national admission of students.
O			Availability of teaching assistants.
O			Access to all students through service courses.

Teaching & Learning	Research	Community Service	Threats
O	O		Competition from exiting universities in UAE and from the newly established ones.
O	O		Risk to the stability of financial support.

Internship Statistics

		Summer	Fall	Spring	Total
Department of Chemistry	# Training Sites	9	1	2	3
	# Trainee Students (National in UAE)	16	2	6	8
	# Trainee Students (Training abroad)	1	0	0	1
Department of Applied Biology	# Training Sites	24	1	1	26
	# Trainee Students (National in UAE)	65	1	1	67
	# Trainee Students (Training abroad)	1	0	0	1
Department of Mathematics	# Training Sites	2	0	0	2
	# Trainee Students (National in UAE)	12	0	0	12
	# Trainee Students (Training abroad)	0	0	0	0
Department of Physics	# Training Sites	2	0	0	2
	# Trainee Students (National in UAE)	19	0	0	19
	# Trainee Students (Training abroad)	0	0	0	0
Total # Training Sites		31			
Total # Trainee Students (National in UAE)		87			
Total # Trainee Students (Training abroad)		2			

Efforts to Enhance Academic Advising:

- **Chemistry**
- Please list some of your techniques here
- (Dr Abdelaziz Elgamouz)
- 4 advising sessions per semester to discuss the following with advisees: Ongoing studies, GPA, training, and Future studies.
- Students were advised to do more work and approach the module instructor if she need extra help.
- The students facing difficulty with new vocabulary as they took chemistry in High school in Arabic Language, the students were advised that Language is never been a barrier it is something additional that could be used to understand more not less, students were advised to focus more on vocabulary and practice more.

- The projected study plan for spring semester was discussed with students, first year students were advised to register most importantly chemistry 2 which is the opening key for chemistry courses, also calculus 2 to be prepared for analytical chemistry in term three.
- The daily course of studies was discussed with students, how many credit hours students are registered to make sure they do not straggle.
- Future for the senior students, discussed with students what they are intended to do for their future carrier such as working in an industry, register for a Master.
- First year students were advised on how to attend classes and make the timetable of all classes as they were not familiar with University environment.
- Students facing outstanding finance, were advised to approach the registration department to see the payment options, they were encouraged to start their industrial training and look for possibility of staying with the training institutions.
- OPen office hours through MSTeam were implemented.
- (Dr. Ahmed Almehti): Frequent communications (via e-mails) and calls (via MS-Team) to the advisee students to follow-up their study progress and support them with their academic needs and advises.

- **Biotechnology**
 - All faculty have been requested to meet at least once per semester with students.
 - Meet with students who are under probation and advise them according to the Bylaws of UOS to improve their GPA. A special form was signed by the student and the advisor.
 - Design an advising form and adopted by all advisee within the DAB for counseling students. This form is a one-page summary of what we do and discuss during the student visit and both the advisor and student sign at the end.
 - Design a short and detailed plan of study to which all Biotechnology Program students refer to it each time visiting me in the office or when they start registering for new courses each semester.
 - Meet with students who are under probation and advise them according to the Bylaws of UOS to improve their GPA.
 - Devote a lot of time for the student during advising and be patient with them.
 - Attendance of "Virtual Orientation Day" organized by UoS on Sept. 1st, 2020.
 - Attendance of "Biotechnology Students' Orientation Day" organized by DAB on Sept. 20, 20120.
 - Attend advising workshop "Academic Advising" organized by College of Sciences Students.

- **Mathematics**
 - All faculty have been requested to meet at least once per semester with students.
 - Follow closely with students who are under probation and advise them accordingly.
 - Contact with advisees and keep records of their academic achievements.

- **Physics**
 - All faculty have been requested to meet at least twice per semester with students.
 - Follow closely with students who are under probation and advise them accordingly.

- MS Teams sessions during the online teaching period to follow the students performance.
- Contact with advisees and keep records of their academic achievements

Plans for future Enhancing Internship

- 1- Having Internship Fair for College of Science, organized by the college not CASTO, to increase the number of training sites and build more bridges with industry side.
- 2- Having Internship Day where all trainees present orally their experience with the UOS Community.
- 3- Diversify the academic programs offered by the College
- 4- More outreach plans will be implemented as stated by the College of Sciences Strategic plan- 2015-2019.
- 5- Working closely with our graduated and alumni to increase the potential of having more training sites opened for our students
- 6- Offering a pre-training or internship workshops for advisors and students.
- 7- Due to the large number of international students in the College, international outreach is highly advisable
- 8- Propose a coop-educational systems
- 9- Trainees are encouraged to assess their training activities and rate them.

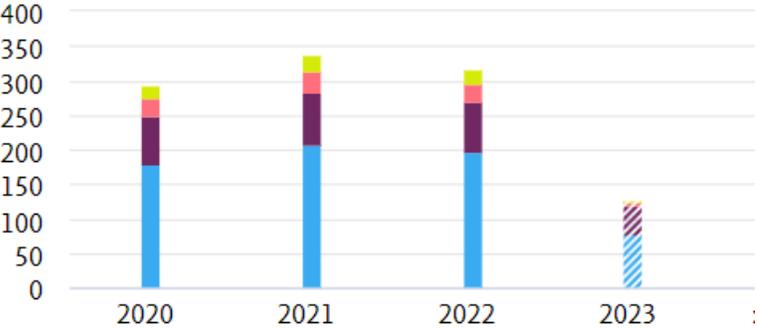
3. Research

Date last updated	21 June 2023				
Date exported	2 July 2023				
	Overall	2020	2021	2022	2023
International Collaboration (%)	83.6	86.1	85	81	80.2
Scholarly Output	1126	309	354	331	131
Citations	9594	5305	3116	1108	65
Outputs in Top Citation Percentiles (top 10%, field-weighted)	20.7	25.9	20.6	18.4	14.5
Publications in Top Journal Percentiles (top 10% by CiteScore Percentile)	34.8	40.8	35.8	31.5	26.2
Citations per Publication	8.5	17.2	8.8	3.3	0.5
Researchers	61	57	57	53	50

CiteScore quartile	Overall	2020	2021	2022	2023
Q1 (top 25%)	664	180	209	198	77
Q2 (top 26% - 50%)	260	70	73	73	43
Q3 (top 51% - 75%)	86	25	33	24	4
Q4 (top 76% - 100%)	66	19	23	22	2
Total	1076	294	338	317	126

Publications by Journal quartile

Share of publications per Journal quartile by [CiteScore Percentile](#)

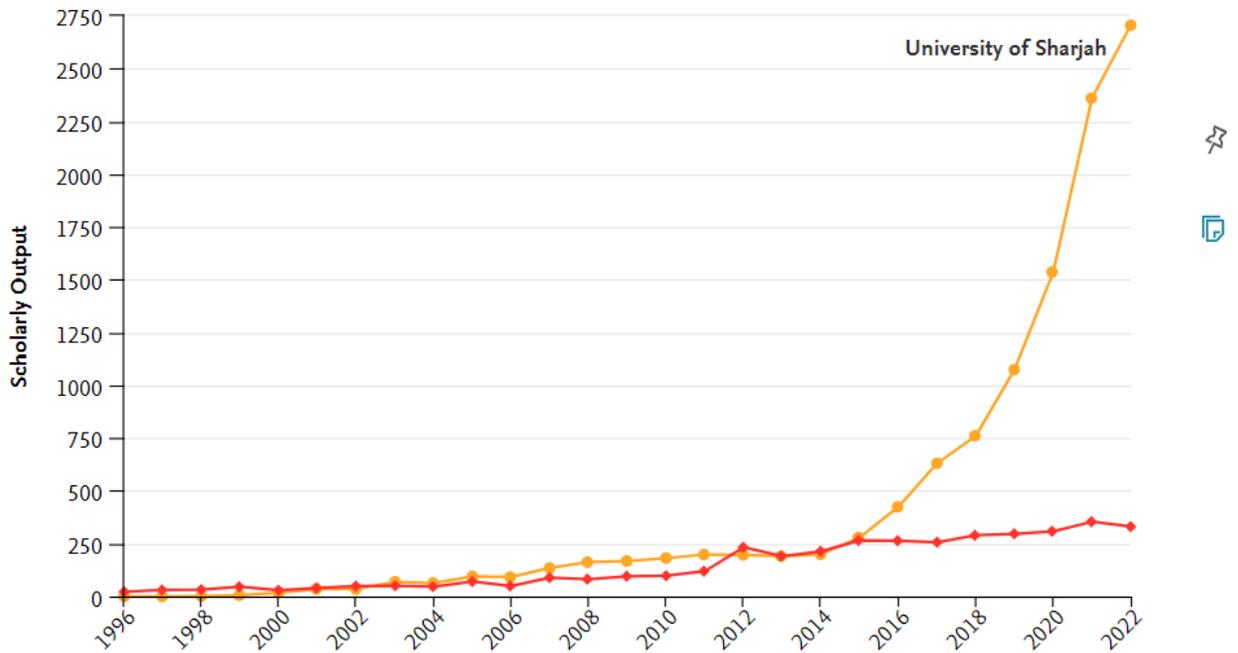


Quartiles	Publications ?	Publication share (%)
Q1 (top 25%)	664	61.7
Q2 (26% - 50%)	260	24.2
Q3 (51% - 75%)	86	8.0
Q4 (76% - 100%)	66	6.1

Scholarly Output

Publication Year

-  University of Sharjah
- ◆  College of Sciences UoS

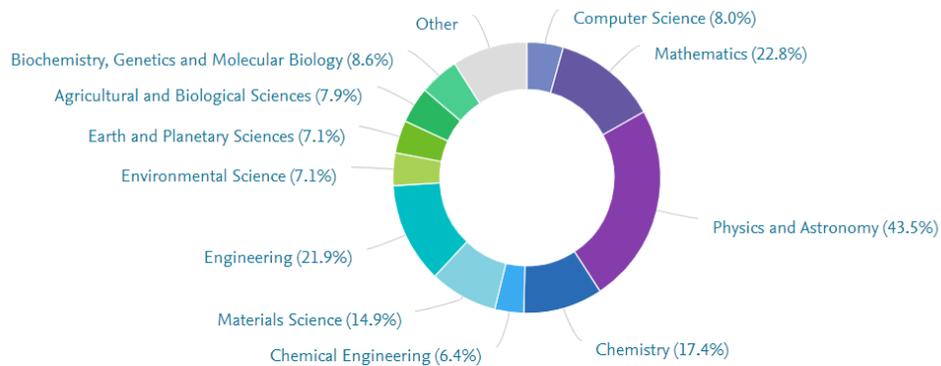


Publications by Subject Area

[+ Add to Reporting](#)

- Table
 Visualization
 Donut Chart
 ▼

Segment size represents relative publication share per Subject Area. Note that a publication can be mapped to multiple Subject Areas. [Learn more](#)



4. Faculty and Professional Staff

List of Full-Time Faculty Members:

ID	Name	Rank	Department	Specialization	Comments
101879	Monther Khanfar	Full	Chemistry	Inorganic	Joined Sep.6, 2020

	(Chairman)				
10041	Ideisan Abu Abdoun	Full	Chemistry	Organic	Joined Jan. 6, 1998
101723	Raed Abdallah AL Qawasmeh	Full	Chemistry	Organic	Joined January 18, 2019
101902	Abdelnasser Metwally Kawde	Full	Chemistry	Analytical	Joined Jan. 17, 2021
	Mady ALharbi	Full	Chemistry	Material	Joined Feb. 1, 2022
10877	Ihsan Shehadi	Associate	Chemistry	Physical	Joined Sep. 1, 2009
10078	Ayssar Nahle	Associate	Chemistry	Analytical	Joined Sept. 5, 1998
10010	Ahmed Almehdi	Associate	Chemistry	Biochemistry	Joined Sep. 1, 2012
101175	Ahmed Ali Mohamed	Assistant	Chemistry	inorganic	Joined Sep. 1, 2014
10978	Mohammed El Naggar	Associate	Chemistry	Organic	Joined Sep. 1, 2011
101314	Abdelaziz Elgamouz	Assistant	Chemistry	Bioanalytical	Joined Sep. 1, 2015
101313	Kamrul Hasan	Associate	Chemistry	Organometallic	Joined Sep. 1, 2015
101617	Mahreen Arooj	Assistant	Chemistry	Physical	Joined Sep, 1 2018
101958	Samar Damiasi	Associate	Chemistry	Biochemistry	Joined Jan. 10, 2022
102055	Tanveer ul Haq	Assistant	Chemistry	Materials	Joined Aug 29, 2022
10236	Ibrahim Abdel- Rahman	Lecturer	Chemistry	Physical	Joined Sep. 1, 2000
10217	Mona Kanj	lecturer	Chemistry	Physical	Joined Sept. 1, 1999
101114	Azeera Abdul Rahim	Lecturer	Chemistry	Bio- Organic	Joined Sept. 1, 2013
101115	Ayesha Mohamed	Lecturer	Chemistry	Organic	Joined Sept. 1, 2013

List of Part-Time Faculty Members:

Name	Rank	Department	Specialization	Comments
Ines BOUAZIZ	Lecturer	Chemistry	Analytical	Joined Spring, 2023

Teaching Load

Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
			Contact Hours**	Credit Hours**	Contact Hours	Credit Hours
Monther Khanfar (Chairman)	Professor	Full -Time	6	6	6	6
Ideisan Abu Abdoun	Professor	Full -Time	60	15.33	36.0	12.00
Raed Abdallah AL Qawasmeh	Professor	Full -Time	14.5	14.5	13.5	13.5
Abdelnasser Kawde	Professor	Full-Time	12.66	12.66	11.59	11.59
Ihsan Shehadi	Professor	Full -Time	6	6	6	6
Ayssar Nahle	Associate Professor	Full -Time	12	12	15	15
Ahmed Almehti	Associate Professor	Full -Time	12	12	12	12
Mohammed El Naggari	Associate Professor	Full -Time	18	18	15	15
Kamrul Hasan	Associate Professor	Full -Time	12	12	13.33	13.33
Abdelaziz Elgamouz	Asso. Professor	Full -Time	12	12	12	12
Mahreen Arooj	Assistant Professor	Full -Time	12	12	12	12
Samar Damiaty	Associate Professor	Full -Time	12.33	12.33	13.83	13.83
Tanveer ul Haq	Assistant Professor	Full Time	18	13.5	16	15.5
Ibrahim Abdul Rahman	Lecturer	Full-Time	24	12	30	15
Mona Kanj	lecturer	Full -Time	24	12	30	15.0
Azeera Abdul Rahim	Lecturer	Full -Time	24	12	30	15
Ayesha Mohamed	Lecturer	Full -Time	24	12	27	13.5
Ines BOUAZIZ	Lecturer	Part-Time	Joined Spring 2023		21	10.5

*Rank: Professor, Associate Professor, Assistant Professor, Lecturer

** For most courses: contact hours = credit hours.

For courses of type LAB or LEB (lecture and lab):

Credit hours = course credit hours published in university catalogue,

Contact hours = actual time the instructor spends in contact with students.

Example: Physics Lab, credit hours = 1, contact hours = 3.

List of Professional Staff

ID	Name	Department	Job Title
20052	Mrs. Naimat Dak El-bab	Chemistry	Team leader – Chemistry Labs Unit
20087	Mr. Mohamad AlFarouk Fuaad	Chemistry	Senior Lab Officer
20329	Mrs. Kifah Abdullah Al-taqaz	Chemistry	Senior Lab Officer
20921	Ms. Reem Al-Teneiji	Chemistry	Lab Officer
201673	Ms. Hajar Ibrahim Abdalla	Chemistry	Senior Lab Officer
201901	Mr. Ali Alsamarrai	Chemistry	Lab Technician
202540	Mr. Amin Hasan	Chemistry	Lab Officer
202689	Ms Alaa Bihi	Chemistry	Lab Officer
202884	Mr. Mussab Osama	Chemistry	Lab Officer
201435	Mrs. Muna Hassan AlBelooshi	Chemistry	Administrative assistant

0. Graduated Students

#	Name	ID#	Degree	Senior Project Title
Fall 2022/2023				
1.	Sana Samer Omar Hamadeh	U19104069	BSc	Generation and stability of Droplet-based Microfluidics using Different Surfactants
2.	Aamer Ali Abdulla Bin Ajaif Alzaabi	U17102979	BSc	Catalysts for the photo copolymerization of Epoxides and Carbon Dioxide (Towards Green Chemistry Process)
3.	Gawaher Nasser Ahmed Almaram	U18104812	BSc	Exploration of Proteins as Potential Nitric Oxide Cardiovascular Drug Carriers using Molecular Docking and DFT Studies-Mechanistic Approach
4.	Hamda K. Yaqoob Ibrahim Alblooshi	U19200075	BSc	Carbon Nitride – Carbon Paste Electrode: Synthesis, Characterization, and Application
5.	Maryam Mohammad Taher	U18104757	BSc	Development and characterization of a Graphite/Clay Electrode for the Electrochemical Sensing of Tyrosine
Spring 2022/2023				

1.	Fatima Ibrahim Gharib	U19105574	BSc	Novel Ce-MOF-Modified Carbon Paste Electrode for Electrochemical Sensitive Detection of Ciprofloxacin Antibiotic
2.	Hadjer Boukhatem	U19102515	BSc	Electrochemical sensing of Plasminogen as Marker of Diseases with an Inflammatory Component on Graphite Pencil Electrode
3.	Alia Belal Abdulla Albatehi	U19105820	BSc	Synthesis and characterization of magnetic Fe ₃ O ₄ @SiO ₂ @Propyl-pyrrole-imine@Pd catalyst for cross coupling reactions
4.	Ali Humaid Alnuaimi	U19103113	BSc	Heavy metal analysis in tobacco samples using two different methods (EDXRF and ICP-OES)
5.	Sarina Hashim Paramba	U19101135	BSc	Computational studies on the combination of insulin and exogenous nitric oxide donors in diabetes associated with cardiovascular complications
6.	Mariam Musabeh Alrashdi	U19101655	BSc	Generation and Stability of Droplet-Based Microfluidics Using Different Surfactants

Master of Science in Chemistry- Fall 2022/2023

1.	Lubna Jamal	U20105005	MSc	Electrochemical Techniques as Powerful Tools to Predict the Selectivity of Clay Ceramic Membranes Towards the Filtration of Toxic Heavy Metal Ions
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Master of Science in Chemistry- Spring 2022/2023

2.	Rania Ziad Moh'd Ghabboun	U20104420	MSc	Efficient Surface Enhanced Raman Spectroscopy Sensing of Bovine Serum Albumin using Silver Nanoparticles
3.	Ayat Tawfiq Al Nimer	U20105007	MSc	Copper-Mediated Signal Amplification for the Electrochemical Detection of Nucleic Acids at Novel Clay-Based Sensors

Internship Statistics

#	Summer 22/23	Fall 22/23	Spring 22/23	Total
# Training Sites	8	1	0	9
# Trainee Students (non- UAE National)	9	1	0	10

# Trainee Students (National in UAE)	7	0	0	7
# Trainee Students (Training abroad)	0	0	0	17

1. Internship Sites

No.	Site Name	Place	# Male Students	# Female Students	Total
1	Captain industries FZE	Dubai	1	0	1
2	Sharjah Municipality	Sharjah	1	3	4
3	Al-Madam Municipality	Al madam/Sharjah	0	1	1
4	Khorfakan port	Khorfakan/Sharjah	0	1	1
5	Dubai Municipality	Dubai	0	4	4
6	International center for forensic science	Dubai	1	0	1
7	Sharjah University Hospital	Sharjah	0	2	2
8	Algharbia Pipe	Abu Dhabi	0	1	1
9	Central lab Sharjah Municipality	Sharjah	0	2	2
	Total	6	3	14	17

2. Student Advising

No.	Faculty Name	Rank*	# Students	
			Fall	Spring
1.	Monther Khanfar (Chairman)	Professor	4	5
2.	Ideisan Abu Abdoun	Professor	4	4
3.	Raed Abdallah AL Qawasmeh	Professor	8	7
4.	Abdel-Nasser Kawde	Professor	8	8
5.	Ihsan Shehadi	Associate Professor	7	4
6.	Ayssar Nahle	Associate Professor	6	6
7.	Ahmed Almehti	Associate Professor	8	7

8.	Mohammed El Naggar	Associate Professor	6	4
9.	Kamrul Hasan	Associate Professor	5	5
10.	Abdelaziz Elgamouz	Associate Professor	5	3
11.	Mahreen Arooj	Assistant Professor	7	7
14.	Samar Damiaty	Associate Professor	7	7
Total			75	72
			Total	147/ year

*Rank: Full Professor, Associate Professor, Assistant Professor, Lecturer

3. Public Disclosure and Integrity/

Agreements and Memorandum of Understanding

Agreement Type*	Singed By**	Signed With	Scope***	Description
Memorandum of Understanding	University of Sharjah	Universiti Kebangsaan Malaysia (UKM)	Malaysia	The University of Sharjah has an active MOU with the Universiti Kebangsaan. Many departments within both Universities are trying to benefit from this MOU, the department of Chemistry is one of those.

* Agreement Type: Memorandum of Understanding, Research Agreement, Library Agreement, Training Agreement ...etc.

** Signed By: Department Name

*** Scope: National (Emirate Name), International (Country Name)

4. The Education Program

Curriculum Development

No.	Course/Program	Development*	Description
B.Sc. Courses			
1-	Heterocyclic Chemistry (1420 455) Dr. Mohamed El-Naggar	3	This course is for students majoring in the field of chemistry. It is an introduction to the broad field of heterocyclic organic chemistry by reviewing the major classes of heterocyclic compounds in terms

			<p>of nomenclature, structure, properties, preparations and reactions.</p> <p>It has been offered this Fall for the first time to Chemistry Major students</p> <p>New learning outcomes are adopted and mapped to the program learning outcomes.</p>
2-	<p>Instrumental Analysis Lab (1420323) CRN:20080</p> <p>Dr. Abdelaziz Elgamouz</p>	4	<p>Introducing a new experiment, Preparation of carbon paste electrode.</p> <p>New recommendations for next cycle reducing the number of CLOs, as the current ones are many and it is difficult to assess. Recommended reducing the outcomes to 4 outcomes instead of 7 outcomes.</p>
3-	<p>Analytical Chemistry Lab (1420222), CRN: 10574</p> <p>Dr. Abdelaziz Elgamouz</p>	4	<p>The last experiment in the lab was a free experiment students have to come up with an experiment that relate what they have learned in the lab with their daily life.</p> <p>Students come up with different experiments: comparison of pH of new and used antifreeze from the radiator of a car, concentration of acetic acid in vinegar, concentration of citric acid in lemon juice.</p> <p>New recommendations for next cycle: reducing the number of CLOs, as the current ones are many and it is difficult to assess. Recommended reducing the outcomes to 4 outcomes instead of 7 outcomes.</p>
4-	<p>General Chemistry2 (1420-103) CRN: 20062</p> <p>Dr. Abdelaziz Elgamouz</p>	4	<p>Separation of concept from tutorial, concepts were covered first in a presentation then 2 to 3 sessions were given as tutorials. Students must solve during the class; a class participation mark was added to course work (5%). Quizzes and exams were given as problem solving examples MCQS were less than 5%. Part of the nuclear chemistry was covered but was not completed.</p>
5-	<p>Separation Methods in Chemical Analysis (1420-423) CRN: 21581.</p> <p>Dr. Abdelaziz Elgamouz</p>		<p>Covered a new topic, capillary electrophoresis application to protein separation. Special topics were given to students (topic1: Salting out of proteins, liquid-liquid extraction, distillation), topic 2: Montmorillonite-based polymethacrylate composite monoliths as stationary phase materials for food and pharmaceutical analysis in capillary</p>

			liquid and gas chromatography, Two-dimensional reversed phase-normal phase liquid chromatography for simultaneous achiral-chiral analysis to support high-throughput experimentation, Two-dimensional reversed phase-normal phase liquid chromatography. Topics were marked and counted towards the course work component.
M.Sc. Courses			
1-	Electrochemistry Techniques (Prof. Abdelnasser Kawde)	4.0	This course was taught for the first time, topics developed are: advanced treatment of the analytical techniques and methodology with emphasis on the modern methods; basic principles, kinetics; and mechanisms of electrode reactions and surface phenomena, and analytical applications of potentiometry; voltammetry, coulometry, and conductometry. New learning outcomes are adopted and mapped to the program learning outcomes.
2-	Green Chemistry (1420554) (Dr. Kamrul Hasan)	4.0	This course has been taught for the first time, topics developed are: Understanding the principles of green chemistry; the effect of humans lays the groundwork for applying the Green; Principles of designing safer chemicals and less hazardous chemical syntheses; using catalysis to avoid unnecessary waste; using safer solvents and auxiliaries, reducing unnecessary chemical derivatives; designing for energy efficiency; designing for degradation; developing real-time analysis for pollution prevention; and using renewable feed stocks New learning outcomes are adopted and mapped to the program learning outcomes.
3-	Advanced Material Science (1420556) (Dr. Tanveer ul Haq)	4.0	The new course was developed. Topics Included, Structure- property relationship, Advance Materials, Development and Properties of Advanced Materials, Characterization of Materials (Detailed Optical Microscopy, SEM, EDS,TEM, XRD, XPS) Application of Materials, Defects in structure of Materials, Amorphous and Crystalline structure of Materials.

			New learning outcomes are adopted and mapped to the program learning outcomes.
4-	Research methodology	1	Introduced the AI part in the Retrosynthesis
5-	Advanced Environmental Chemistry (MSc.), (1420-541), CRN: 23140 Dr. Abdelaziz Elgamouz	4	Covering new topics, Energy Use: A Historical Overview, Energy from Fuels, Petroleum, Natural Gas, Induced Hydraulic Fracturing, coal, electricity, Sequestering CO ₂ . New assessment tools used, Mid-term Exam (20%), Final Exam (40%), Case studies 1 and 2 (10%), Term paper-writing (10%), Term paper-presentation (10%), Assignments (10%)
6-	Special Topics in Analytical Chemistry (1420-526), CRN: 13112 Dr. Abdelaziz Elgamouz	4	New topics were covered, Calorimetry and Colorimetric Sensors, Applications, Merits and Advances. New assessment tools used, Homework/Reading Assignments (10%), Practical reports (10%), Term paper (presentation part) (10%), Term paper (writing part) (10%) Mid-term Examination (20%) and final exam (40%).
7-	Environmental Toxicology (1420-532) CRN: 21581 Dr. Abdelaziz Elgamouz	4	New topics were covered: Insecticides, Herbicides, and Insect Control, Alternative Methods of Insect Control, Pheromones Sex pheromones, Aggregation and trail pheromones, Juvenile hormones, Allomonones. New assessment tools used, Mid-term Exam (20%), Final Exam (40%), Case studies 1 and 2 (10%), Term paper-writing (10%), Term paper-presentation (10%), Assignments (10%).

*Development:

- 1- Program Update: changes in the structure of an offered program
- 2- Course Update: change in course name, pre-requisites, credit hours, ..etc.
- 3- New Course
- 4- Content Development
- 5- Others (specify)

Teaching & Learning

Methods for teaching and learning (new methods and enhancements on current methods):

[Examples: Team-based learning, Problem based learning, group studies, case studies, projects, ...etc]

These will reflect what is actually done in classrooms and documented in the course files.

1.	<p>Prof. Raed Al-Qawasmeh (Organic Chemistry 2) Challenged section were introduced between the students. All students are given 5 marks in the bank and other student challenge them with questions from the material taken during the course, if the student answered this then he will take marks from him (this mark will be added to his achieved marks), if the student could not answer then he will lose marks to the one who asks. With this approach, students were activated and motivated to read and look for challenging questions. Student did like this method and it will be implemented</p>
2.	<p>Dr. Abdelaziz Elgamouz (General Chemistry2 (1420-103) CRN: 20062). The concept component in lectures was separated from tutorial, concepts were covered first in a presentation then 2 to 3 sessions were given as tutorials. Students must solve during the class; a class participation mark was added to course work (5%). Quizzes and exams were given as problem solving examples MCQS were less than 5%. In this way students were trained very well on how to solve all problems related to the material.</p>
	<p>Dr. Abdelaziz, in Master courses (Advanced Environmental Chemistry (MSc.), (1420-541), CRN: 23140, Special Topics in Analytical Chemistry (1420-526), CRN: 13112, Environmental Toxicology (1420-532) CRN: 21581) part of the course was covered by students through special assignment or reading students have to prepare before coming. Flex Hybrid learning was used, where all classes were recorded on the blackboard ultra, some students find it difficult to attend in the beginning especially in Advanced environmental chemistry and Environmental toxicology, so they found it very useful to attend online when it was difficult to attend due to traffic for example students from Khorfakan and kalba. Students in Environmental toxicology were given a case study about Action Levels for Lead in Food Intended for Babies and Young Children: Draft Guidance for Industry. Students must read the case and answer a 10-blackboard essay question about the case study.</p>
3.	<p>Dr. Abdelaziz In senior courses such Separation Methods in Chemical Analysis (1420-423) CRN: 21581. students were given special topics about separation either a general topic like distillation in refineries, salting out of proteins, or steam distillation of liquors. Or research papers from the journal of chromatography A, students were asked to enter the journal and find a suitable topic themselves which they have to summarize and present in the class, this activity helped students to link what they have acquired in the class with practical examples of separation.</p>
4.	<p>Dr. Abdelaziz Elgamouz, In the chemistry Labs taught (Instrumental Analysis Lab (1420323) CRN:20080, Analytical Chemistry Lab (1420222), CRN: 10574),students were requested to do all training assigned in the central labs (at least 10 training, I have been in touch with the central labs and have made sure that all students were assigned such trainings), this activity was counted as one lab report. In addition students have to read the experimental procedure before coming to the lab, a Control of Substances Hazardous to Health (COSHH) form was designed for this purpose. Students must assess the risk they are going to face in the lab and have to come up with proper measures to be protected against any arising risk, they have to know which PPE they need to use, whether the hood is required or not, whether the work has to be done by any named person, etc.</p>

Faculty Analysis

Faculty Development

Narrative: the faculty and staff of the department of chemistry have attended more than 1032 hours. These are summarized in the table below

Faculty /Staff	Total hours	Total number of Faculty /Staff	No data	Average (hours)
Staff	107	6	0	18
Faculty (PhD +Msc)	925	15	0	62
Faculty + Staff	1032	21	0	49

Only few examples are given the table of development below, details are attached in the excel sheet in Appendix A.

No	Development Event*	Date	Development Area**	Description
1.	ورشة: لوائح البكالوريوس وسياسات التسجيل	April 05 - 2023	Teaching & Learning,	Training, Workshop,
2.	نظام متابعة حضور الطلبة	1/24/2023	Teaching & Learning,	Training, Workshop,
3.	قواعد و لوائح الاختبارات	01.05.2023	Teaching & Learning,	Training, Workshop,
4.	الندوة البحثية بعنوان: " الملكية الفكرية وبراءات الاختراع	December 22, 2022	Teaching & Learning,	Training, Workshop,
5.	الملكية الفكرية وبراءات الاختراع	12/22/2022	Teaching & Learning,	Training, Workshop,
6.	المضي قدمًا في أبحاث طلاب الدراسات العليا مع التأثير على المجتمع	1/18/2023	Teaching & Learning,	Training, Workshop,
7.	"التصميم التعليمي الفعال من أجل التوظيف	9/20/2022	Teaching & Learning,	Training, Workshop,
8.	التخرج (برامج الدكتوراه) " الدراسات العليا من القبول	10/12/2022	Teaching & Learning,	Training, Workshop,
9.	Research Outreach & Beyond'	12/12/2022	Teaching & Learning,	Training, Workshop,
10.	Program Evaluation and Continuous Improvement: You cannot improve what you cannot measure"	4/6/2023	Teaching & Learning,	Training, Workshop,

11.	Protecting your Intellectual Property and Generate Revenues, delivered by Dr. Mohamed Al Hemair	October 17, 2022	Teaching & Learning,	Training, Workshop,
12.	accreditation: Best practices to keep always ready for accreditation	Jan-30-2023	Teaching & Learning,	Training, Workshop,
13.	Women cultural gathering for Chemistry students	21_2_2023.	Teaching & Learning,	Training, Workshop,
14.	WIR][Press Conference] for Launching the 4th Forum for Women in Research	March 21st, 2023	Teaching & Learning,	Training, Workshop,
15.	Virtual Library Training Session on Refworks - The Citation Manager Tool	September 20th ,2022	Teaching & Learning,	Training, Workshop,
16.	Virtual Library Training Session on upto Date	jan 24 -2023	Teaching & Learning,	Training, Workshop,
17.	Virtual Library Training Session on-- JoVE - The Journal of Visualized Experiments	26th January , 2023	Teaching & Learning,	Training, Workshop,
18.	Virtual Library Training Session on-- Accelerate your science research and education with JoVE	October 4th ,2022	Teaching & Learning,	Training, Workshop,
19.	Utilizing AI Chatbots in Teaching & Learning - organized by the Institute of Leadership in Higher Education	2/20/2023	Teaching & Learning,	Training, Workshop,
20.	Uses of Artificial Intelligence in Medical Education	2/9/2023	Teaching & Learning,	Training, Workshop,
21.	University of Sharjah – Skoltech Joint:"AlfoL Research Collaboration in AI for Life workshop"	May 22nd, 2023	Teaching & Learning,	Training, Workshop,
22.	Unique Occasion To Learn More About Microfluidics and Organ On A Chip	08.11.2022	Teaching & Learning,	Training, Workshop,
23.	"The Future of Education with AI Chatbots: Challenges, Opportunities and Implications	Feb 8th, 2023	Teaching & Learning,	Training, Workshop,
24.	The four corners of Preimplantation Genetic Testing: A different challenge every day	2/27/2023	Teaching & Learning,	Training, Workshop,
25.	The 3rd Forum for Women in Research - "Quwa: Women Empowerment for Global Impact"	2/20/2023	Teaching & Learning,	Training, Workshop,

26.	The 21st Research Café Talk - The Art of making Scientists in the Era of AI	12 Oct, 2022	Teaching & Learning,	Training, Workshop,
27.	Sustainability Circles Event	2/22/2023	Teaching & Learning,	Training, Workshop,
28.	Successful Online Exams: The Faculty Perspectives	March 9, 223	Teaching & Learning,	Training, Workshop,
29.	Studiosity Faculty Training - - organised by the Academic Computing Section	5/23/2023	Teaching & Learning,	Training, Workshop,
30.	Strategic Forum	October 10th, 2020	Teaching & Learning,	Training, Workshop,
31.	Simulations Workshop by Chemistry Department	29 sept, 2022	Teaching & Learning,	Training, Workshop,
32.	Securing External grants Capture and Impact in Non-STEM Areas”	2/28/2023	Teaching & Learning,	Training, Workshop,
33.	Scopus and using Metrics	2/28/2023	Teaching & Learning,	Training, Workshop,
34.	Safety Training - REACTIVES IN LABORATORY AND RESEARCH FACILITIES	24.05.2023	Teaching & Learning,	Training, Workshop,
35.	Safety Training - CHEMICAL HYGIENE PLAN	May 24th, 2023	Teaching & Learning,	Training, Workshop,
36.	Safe Science , Safe Scientists	10/5/2022	Teaching & Learning,	Training, Workshop,
37.	Safe Science, Safe Scientists : A College of Sciences Lab Safety Workshop	9/4/2022	Teaching & Learning,	Training, Workshop,
38.	Rethinking Examinations in Higher Education - organized by the Institute of Leadership in Higher Education	February 2nd, 2023	Teaching & Learning,	Training, Workshop,
39.	RESPIRATORY PROTECTION	May 16th, 2023	Teaching & Learning,	Training, Workshop,
40.	Research Workshop] Publishing Unit and Beyond by Prof. Qassim Nasir	12th Dec2022	Teaching & Learning,	Training, Workshop,
41.	Research Seminar: “Startup & Licensing”	Nov 23- 2022	Teaching & Learning,	Training, Workshop,

42.	Research Outreach and Beyond	1/18/2023	Teaching & Learning,	Training, Workshop,
43.	Research Fair Webinar Series" Workshop	22 Nov, 2022	Teaching & Learning,	Training, Workshop,
44.	"Research Fair Webinar Series] 6th Talk by Brigadier Dr. Khalid Hamad Al Hammadi,	Feb 2, 2023,	Teaching & Learning,	Training, Workshop,
45.	Director of the Sharjah Police Research Center (SPRC)"	November 16 & 17	Teaching & Learning,	Training, Workshop,
46.	Research at UOS: Opportunity, Grant and Expectation	2/2/2023	Teaching & Learning,	Training, Workshop,
47.	Reactivities in Laboratory and Research Facilities	Oct 17th, 2022	Teaching & Learning,	Training, Workshop,
48.	RCEP's 6th International Conference Co-designing the Futures of Education	1/19/2023	Teaching & Learning,	Training, Workshop,
49.	Publishing Unit and Beyond	44826	Teaching & Learning,	Training, Workshop,
50.	Protecting your intellectual property and generating revenues	06.04.2023	Teaching & Learning,	Training, Workshop,
51.	ProQuest- RefWorks the Citation Manager	17 Nov 2022	Teaching & Learning,	Training, Workshop,
52.	"ProQuest One Academic	October 11th, 2020	Teaching & Learning,	Training, Workshop,
53.	Presented By Mr. Anas Obaid"	3/2/2023	Teaching & Learning,	Training, Workshop,
54.	Program Evaluation and Continuous Improvement: You cannot improve what you cannot measure	01.03.2023	Teaching & Learning,	Training, Workshop,
55.	Preparation for CAA Accreditation and Response to ABET Requirements. A Collective Effort and Team Work	3/1/2023	Teaching & Learning,	Training, Workshop,
56.	Pre-Award: Research Funding Opportunities- Grants and Guidelines	11/1/2022	Teaching & Learning,	Training, Workshop,
57.	Post-award Funding Opportunity - Grants and Guidelines	Nov 15-16 - 2022	Teaching & Learning,	Training, Workshop,

58.	Oxygen Evolution Reaction on Transition Metals: Promoting Water Dissociation by Tuning the Surface Oxygen Vacancies	30.03.2023	Teaching & Learning,	Training, Workshop,
59.	Office Ergonomics	30.03.2023	Teaching & Learning,	Training, Workshop,
60.	New SciFinder-n Platform	Oct 13th, 2022	Teaching & Learning,	Training, Workshop,
61.	My Health Conference on its 9th edition under the slogan of (Towards a Healthy lifestyle)	12.04.2023	Teaching & Learning,	Training, Workshop,
62.	Multihost, multiplasmid genetic logic library: What happens in E.coli, stays in E.coli	April 6th, 2023	Teaching & Learning,	Training, Workshop,
63.	mRNA-LNP formulation screening with high-throughput and automation	Feb 09-2023	Teaching & Learning,	Training, Workshop,
64.	"Moving from Teacher-Centered to Student-Centered Learning	8/28/2022	Teaching & Learning,	Training, Workshop,
65.	McGraw Hill ALEKS platform training in preparation for Fall 2023	1/30/2023	Teaching & Learning,	Training, Workshop,
66.	Materials for Renewable Energy and Energy Efficiency Course - Session (4)	29 sept, 2022	Teaching & Learning,	Training, Workshop,
67.	Lexicomp	1/26/2023	Teaching & Learning,	Training, Workshop,
68.	Introduction to Blackboard ULTRA - organised by the Academic Computing Section	9/27/2022	Teaching & Learning,	Training, Workshop,
69.	Intellectual Property and Patents	March 21st, 2023	Teaching & Learning,	Training, Workshop,
70.	Impact of excise tax implementation on excisable goods consumption	Sept 1, 2022	Teaching & Learning,	Training, Workshop,
71.	How to Use SPIN Database to Find External Funding Opportunities	5/24/2023	Teaching & Learning,	Training, Workshop,
72.	How to select the right journal to publish in Scopus	Nov 21st, 2022	Teaching & Learning,	Training, Workshop,
73.	How to Choose a Research Line that Will Have a Global Impact?	29.03.2023	Teaching & Learning,	Training, Workshop,

74.	How Does Learning Work Best Using Emotional Intelligence - organized by the Institute of Leadership in Higher Education	25.05.2023	Teaching & Learning,	Training, Workshop,
75.	Honoring the Highly Achieved Alumni of the COS"	4/25/2023	Teaching & Learning,	Training, Workshop,
76.	Health and safety training	1/26/2023	Teaching & Learning,	Training, Workshop,
77.	Graduate Studies from Acceptance to Graduation" Workshop	29.03.2026	Teaching & Learning,	Training, Workshop,
78.	Future of Science Parks	9/21/2022	Teaching & Learning,	Training, Workshop,
79.	FORMALDEHYDE SAFETY IN RESEARCH AND EDUCATION	May 1st, 2023	Teaching & Learning,	Training, Workshop,
80.	exploring key strategies for process development, optimization and scale-up of nanomedicines	Feb 16-2023	Teaching & Learning,	Training, Workshop,
81.	Exams Regulations & Policies	27.04.2023	Teaching & Learning,	Training, Workshop,
82.	EMPOWERING EDUCATION IN SCIENCES WITH AI"	9/4/2022	Teaching & Learning,	Training, Workshop,
83.	ELECTRICAL SAFETY / NFPA 70E IN RESEARCH AND EDUCATION	23.05.2023	Teaching & Learning,	Training, Workshop,
84.	Effective Instructional Designing for Employability	April 25th, 223	Teaching & Learning,	Training, Workshop,
85.	Economic Impact of Research – Innovation and Commercialization of Nanotechnology"	Aug. 28th, 2022	Teaching & Learning,	Training, Workshop,
86.	DynaMed - The Clinical Decision Support System	5/24/2023	Teaching & Learning,	Training, Workshop,
87.	Droplet Insider vol. 2: Droplet microfluidics-assisted transcriptome sequencing of the HIV-Infected 'Latent Reservoir	18.03.2023	Teaching & Learning,	Training, Workshop,
88.	DRIVER SAFETY	24.05.2023	Teaching & Learning,	Training, Workshop,
89.	Discover RefWorks Tools and Writing Add-ons - إكتشف أدوات ومساعدات الكتابة من ريفوركس	20.03.2023	Teaching & Learning,	Training, Workshop,

90.	Design for Future Higher Education - Judges	March 3rd,2023	Teaching & Learning,	Training, Workshop,
91.	Delivering Live Lecture using Blackboard Collaborate	29.03.2025	Teaching & Learning,	Training, Workshop,
92.	COS strategic initiative MIRO platform workshop	1/30/2023	Teaching & Learning,	Training, Workshop,
93.	CoS Retreat	April 12th, 2023	Teaching & Learning,	Training, Workshop,
94.	College Strategy Development Workshop	Feb 16-2023	Teaching & Learning,	Training, Workshop,
95.	Collective Intelligence from biological and social to robotic systems	6/1/2023	Teaching & Learning,	Training, Workshop,
96.	Chemical Hygiene Plan	28 sept, 2022	Teaching & Learning,	Training, Workshop,
97.	CENTRAL LABS SAFETY ORIENTATION	5/3/2023	Teaching & Learning,	Training, Workshop,
98.	Capacity Building Workshop for Department Chairs	Dec-05-2022	Teaching & Learning,	Training, Workshop,
99.	Brown Bag Gathering by The scholarship of Teaching	29-Jan-2023	Teaching & Learning,	Training, Workshop,
100.	Britannica Academic Training	29.03.2023	Teaching & Learning,	Training, Workshop,
101.	Blackboard Ally Tools training by academic computing section, UOS	18.05.2023	Teaching & Learning,	Training, Workshop,
102.	Biosafety and Chemical Safety Awareness Workshop	15th Sep,2022	Teaching & Learning,	Training, Workshop,
103.	Beyond Traditional Testing: Exploring Alternative Assessments in the Age of AI	04 Oct, 2022	Teaching & Learning,	Training, Workshop,
104.	Beyond Industry 4.0 and 5.0: Towards a Smart-Digital Green Society- A Canadian Perspective in Education and Research	March 16th, 2023	Teaching & Learning,	Training, Workshop,
105.	Best Practices to keep always ready for accreditation	10/5/2022	Teaching & Learning,	Training, Workshop,

106.	BASIC FIRST AID	1/24/2023	Teaching & Learning,	Training, Workshop,
107.	AI + Biology for sustainable ingredients	December 8, 2022	Teaching & Learning,	Training, Workshop,
108.	Administering Online Exams in ULTRA	April 05 - 2023	Teaching & Learning,	Training, Workshop,

*Development Event: Training, Workshop, Seminars ...etc.

** Development Area: Teaching & Learning, Assessment ...etc.

Awards and Prizes

No.	Prize Name	Awarded To	Awarded By
1.	Appreciation award from the COS	Ihsan Shehadi	Deanship of the College of Sciences
2.	Appreciation award from the COS	Mohamed El-Naggar	Deanship of the College of Sciences
3.	Appreciation award from the CoS	Dr. Tanveer ul Haq	Deanship of the College of Sciences
4.	Appreciation award from the CoS	Raed Al-Qawasmeh	Deanship of the College of Sciences
5.	Appreciation award from the CoS	Raed Al-Qawasmeh	Deanship of the College of Sciences
6.	Appreciation award from the CoS- EmSAT,	Raed Al-Qawasmeh	Deanship of the College of Sciences
7.	Paper of the Month: Albumin-bound nanodiscs as drug delivery vehicle candidates	Samar Damiati	Cube Biotech, Germany
8.	Appreciation award from the COS	Monther Khanfar	Deanship of the College of Sciences

Efforts to Enhance Academic Advising:

- 4 advising sessions per semester to discuss the following with advisees: Ongoing studies, GPA, training, and Future studies (Dr. Abdelaziz Elgamouz).

- Students were advised to do more work and approach the module instructor if they need extra help (Dr. Abdelaziz Elgamouz).
- The students facing difficulty with new vocabulary as they took chemistry in High school in Arabic Language, the students were advised that Language is never been a barrier it is something additional that could be used to understand more not less, students were advised to focus more on vocabulary and practice more (Dr. Abdelaziz Elgamouz).
- The projected study plan for spring semester was discussed with students, first year students were advised to register most importantly chemistry 2 which is the opening key for chemistry courses, also calculus 2 to be prepared for analytical chemistry in term three (Dr. Abdelaziz Elgamouz).
- The daily course of studies was discussed with students, how many credit hours students are registered to make sure they do not straggle.
- Future for the senior students, discussed with students what they are intended to do for their future carrier such as working in an industry, register for a Master.
- First year students were advised on how to attend classes and make the timetable of all classes as they were not familiar with university environment.
- Students facing outstanding finance, were advised to approach the registration department to see the payment options, they were encouraged to start their industrial training and look for possibility of staying with the training institutions.
- Open office hours through MS Team were implemented.
- (Dr. Ahmed Almehdi): Frequent communications (via e-mails) and calls (via MS-Team) to the advisee students to follow-up their study progress and support them with their academic needs and advises.

5.6 Student Extra-Curricular Activities

No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1.	Poster Exhibition Day	Exhibition	Local	May 4 th 2023	UoS Students & Faculty
2.	9 th Chemistry Festival	Festival	Local	12th October 2022.	UAE community
3.	The Science Fair Festival for High School Students”	Festival and Competition between High Schools	Local	2 nd May 2023	High Schools Students, College of Science Students, Staff and Academics
4.	51 st UAE National Day Celebration a UoS	Celebration	Local	22 nd Nov 2022	UoS Faculty, Staff and students
5.	The College of Sciences " 25 Year Journey" Exhibition	Exhibition	Local	March 14th, 2023	UoS Faculty, Staff and students
6.	Honoring the Highly Achieved Alumni of the COS”, in Celebration of the University’s Silver Jubilee.	Celebration	Local	21st March, 2023	UoS Faculty, Staff and students
7.	Design for Future Higher Education - Judges	Exhibition	Local	April 25th, 223	UoS Faculty, Staff and students
8.	CoS _ Students’ Research Projects Defense	Presentations	Local	December 21, 2022	UoS Faculty, Staff and students
9.	College of Sciences " 25 Year Journey"	Exhibition	Local	March 14th, 2023	UoS Faculty, Staff and students
10.	Chemistry Senior Research Projects oral presentation	Presentations	Local	5/3/2023	UoS Faculty, Staff and students

1. Research and Scholarly Activities

Publications

Publication Category	Number of Publications
Published Books	0
Journal Papers	68
Book Chapters	2
Conference Papers	22
Technical Reports & Manuals	0
Artistic and Creative Works and Patents*	2
Total	94

* For College of Fine Arts and Design

List of Publications

Number	Publication Name	Category*
1.	Kawde, Abdelnasser and Odewunmi, N., "Detection of Serum Methionine and Glucose by Graphite Pencil Electrode" US Patent, US 11474067 B2, Oct. 18, 2022.	Patent
2.	Kawde, Abdelnasser. and Odewunmi, N., "Method for Determining Glucose Concentration in a Serum Sample" US Patent App., US 0016698 A1, Jan. 19, 2023.	Patent
3.	El-Kordy, A.; Elgamouz, Abdelaziz; Lemdek, E; Tijani, N.; Alharthi, S.; Kawde, Abdelnasser, and Shehadi, I. "Preparation of Sodalite and Faujasite Clay Composite Membranes and their Utilization in the Decontamination of Dye Effluents", Membranes. Vol. 12 (2022), 12-30.	Journal
4.	Baig, N.; Kawde, Abdelnasser; Elgamouz, Abdelaziz; Morsy, A. Abdelfattah, A. and Othaman, R. "Graphene Nanosheet-Sandwiched Platinum Nanoparticles Deposited on a Graphite Pencil Electrode as an Ultrasensitive Sensor for Dopamine", RSC Advances. Vol. (2022), pp. 2057-2067.	Journal
5.	Gulzar, S.; Ammara, U.; Abid, Z.; Shahid, S.; Ashraf, R.; Baig, N.; Kawde, Abdenasser; Bhatia, G.; Isab, A., and Altaf, M. "Synthesis, In Vitro Anticancer Activity and Reactions with Biomolecule of Gold(I)-NHC Carbene Complexes", Journal of Molecular Structure. Vol.1255 (2022), pp. 132482-132492.	Journal
6.	. Lahnafi, A.; Elgamouz, Abdelaziz; Tijani, N.; Jaber, L., and Kawde, Abdelnasser "Hydrothermal Synthesis and Electrochemical Characterization of Novel Zeolite Membranes Supported on Flat Porous Clay-based Microfiltration System and its Application of Heavy Metals Removal of Synthetic Wastewaters", Microporous and Mesoporous Materials. Vol. 334, (2022) pp. 111778-111789.	Journal

7.	Elgamouz, Abdelaziz; Kawde, Abdelnasser; Alharthi, S.; Laghoub, M.; Miqlid, D.; Nassab, C.; Bajou, K., and Patole, S., "Cinnamon Extract's Phytochemicals Stabilized Ag Nanoclusters as Nanozymes "Peroxidase and Xanthine Oxidase Mimetic" for Simultaneous Colorimetric Sensing of H ₂ O ₂ and Xanthine", Colloids and Surfaces A: Physicochemical and Engineering Aspects. Vol 647 (2022), pp. 129035-129044.	Journal
8.	Baig, N.; Kawde, Abdelnasser, and Elgamouz, Abdelaziz. "A Cost-effective Disposable Graphene-based Sensor for Sensitive and Selective Detection of Uric Acid in Human Urine", Biosensors and Bioelectronics: X. Vol 11 (2022), pp. 100205-100214.	Journal
9.	Jaber, L.; Elgamouz, Abdelaziz, and Kawde, Abdelnasser "An Insight to the Filtration Mechanism of Pb(II) at the Surface of a Clay Ceramic Membrane Through its Preconcentration at the Surface of a Graphite/clay Composite Working Electrode", Arabian Journal of Chemistry. Vol 15 (2022), pp. 104303-104316.	Journal
10.	Lahnafi, A.; Elgamouz, Abdelaziz; Tijani, N.; Jaber, L., and Kawde, Abdelnasser "NaA Zeolite-clay Composite Membrane Formulation and its Use as Cost-effective Water Softener ", Microporous and Mesoporous Materials. Vol. 348, (2023) pp. 112339-112352.	Journal
11.	AbdelHamid, A.; Elgamouz, Abdelaziz, Khanfer, M., and Kawde, Abdelnasser "COVID-19 Chloroquine Drug Detection Using Novel, Highly Sensitive SnO ₂ -Based Electrochemical Sensor ", Arabian Journal of Chemistry. Vol 16 (2023), pp. 104674-104688.	Journal
12.	Ziad, R.; Columbus, S.; Elgamouz, Abdelaziz; Daoudi, K.; Kawde, Abdelnasser; Ramachandran, K. and Gaidi, M. "Multi-functional Silver nanoprism-titanium Dioxide Hybrid Nanoarrays for Trace-Level SERS Sensing and Photocatalytic Removal of Hazardous Organic Pollutants" Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. Vol. 297 (2023) pp. 122701 - 122713.	Journal
13.	El-Kordy, A.; Elgamouz, Abdelaziz; Alrashdi, A.; Kali, A.; Abdelhamid, A.; Kawde, Abdelnasser, and Tijani, N. "Development and Characterization of a Clay-HDTMABr Composite for the Removal of Cr (VI) from Aqueous Solutions with Special Emphasis on the Electrochemical Interface" Arabian Journal of Chemistry. Vol. 16, (2023) 105027- 105043.	Journal
14.	AbdelHamid, A.; Elgamouz, Abdelaziz and Kawde, Abdelnasser "Polypyrrole-Coated Three-Dimensional Graphenized Surface for Superior Supercapacitor	Journal

	Performance" Arabian Journal for Science and Engineering. (2023) In Press. doi.org/10.1007/s13369-023-07915-5	
15.	Elgamouz, Abdelaziz; Kawde, Abdelnasser; Shehadi, I.; Sayari, S.; Mohammed, S.; Abdelrazeq, A.; Nassab, C.; AbdelHamid, A. and Hasan, K. "Modified Graphite Pencil Electrode Based on Graphene Oxide-Modified Fe ₃ O ₄ for Ferrocene-Mediated Electrochemical Detection of Hemoglobin" ACS Omega. Vol. 8 (2023) pp. 11880–11888.	Journal
16.	Almisbah, S.; Mohammed, A.; Elgamouz, Abdelaziz; Bihi, A. and Kawde, Abdelnasser. "Green Synthesis of CuO Nanoparticles using Hibiscus Sabdariffa L. Extract to Treat Wastewater in Soba Sewage Treatment Plant, Sudan" Water Science & Technology. (2023) In Press doi.org/10.2166/wst.2023.153	Journal
17.	L. Toukal, D.E. Belfennache, M. Foudia, R. Yekhlef, F. Benghanem, B. Hafez, H. Elmsellem and I. Abdel-Rahman, "Inhibitory power of N,N'-(1,4-phenylene)bis(1-(4- nitrophenyl)methanimine) and the effect of the addition of potassium iodide on the corrosion inhibition of XC70 steel in HCl medium: Theoretical and experimental studies", <i>Int. J. Corros. Scale Inhib.</i> , 2022, 11, no. 1, 438–464. DOI: 10.17675/2305-6894-2022-11-1-26	Journal
18.	L. Toukal, M. Foudia, D. Haffar, N. Aliouane, M. Al-Noaimi, Y. Bellal, H. Elmsellem, I. Abdel-Rahman, "Monte Carlo simulation and electrochemical performance corrosion inhibition with benzimidazole derivative for XC48 steel in 0.5 M H ₂ SO ₄ and 1.0 M HCl solutions", <i>Journal of the Indian Chemical Society</i> , 99(9), 1-11. (September 2022), 100634. https://doi.org/10.1016/j.jics.2022.100634	Journal
19.	H. Miqdad and I. Abdel-Rahman, "The activation Energy of pure Polyethylene Oxide and Polyethylene Oxide Dispersed with Iodine", <i>Journal of Southwest Jiaotong University</i> , 57(6), Dec. 2022, 614-619. DOI: 10.35741/issn.0258-2724.57.6.57	Journal
20.	H. Miqdad and I. Abdel-Rahman, "The Effect of Addition 0.1 % by Weight Iodine on the Thermal Properties of Polyethylene Oxide Films", <i>Journal of Southwest Jiaotong University</i> , 57(6), Dec. 2022, 182-188. DOI: 10.35741/issn.0258-2724.57.6.16	Journal
21.	H. Miqdad and I. Abdel-Rahman, "The Effect of Addition 0.1 % by Weight Iodine on the Optical Properties of Polyethylene Oxide Films", <i>Journal of Southwest Jiaotong University</i> , 57(6), Dec. 2022, 12-19. DOI: 10.35741/issn.0258-2724.57.6.2	Journal

22.	R. Rmili, M. Sokovic, M. Ramdani, A.M. Almehti, I. Abdel-Rahman, Ryan Adnan Sheikh, Baraa Hafez, D. Bouknana ¹ and H. Elmsellem, "Study of corrosion inhibition performance of volatile and nonvolatile Curcuma longa L. extracts complemented with antioxidants and antibacterial assays", <i>Int. J. Corros. Scale Inhib.</i> , 2023, 1, no. 1, 180–204. Doi: 10.17675/2305-6894-2023-12-1-11	Journal
23.	Nawal H. Bahtiti, Faten Adawan, Mohammed H. Kailani, Ibrahim Abdel-Rahman, and Latifa S. Ismail, "A comparative LC/MS Analysis of Jordanian Bay Leaf, Branches, and Roots (<i>Laurus nobilis</i> L.), <i>Journal of Southwest Jiaotong University</i> , 57(6), Dec. 2022, 495-502	Journal
24.	Mohammed A. Hosen; Faizan A. Qais; Samir Chtita; Ibrahim A. Rahman; Ahmed M. Almehti; Ferdausi Ali; Faisal A. Almalki; Taibi B. Hadda; Hamid Laaroussi; Sarkar M. A. Kawsar, "In silico and POM analysis for potential antimicrobial agents of thymidine analogs by using molecular docking, molecular dynamics and ADMET profiling", <i>Nucleosides, Nucleotides & Nucleic Acids</i> , 42(8), 26 May 2023	Journal
25.	"Treatment for landfill leachate through sequential multi-sand-layering filters coupled with sulfate radical-based advanced oxidation processes" N. Bougdour*, C. Radaa, N. Tajat, W. El Hayaoui, J. Zoubir, M. Hamdani, S. Qourzal, A. Nahlé, A. Assabbane, I. Bakas. <i>International Journal of Environmental Science and Technology</i> , March (2022). DOI: https://doi.org/10.1007/s13762-022-04036-8	Journal
26.	"Experimental and Theoretical Approach for Novel Imidazolium Ionic Liquids as Smart Corrosion Inhibitors for Mild Steel in 1.0 M Hydrochloric Acid" A. Nahlé*, R. Salim, F. EL Hajjaji, E. Ech-chihbi, A. Titi, M. Messali, S. Kaya, B. El Brahimi, M. Taleb. <i>Arabian Journal of Chemistry</i> , 15(8) (2022). DOI: https://doi.org/10.1016/j.arabjc.2022.103967	Journal
27.	"Corrosion inhibition of SS 316L by Organic Compounds: Experimental, Molecular Dynamics, and Conceptualization of Molecules–Surface Bonding in H ₂ SO ₄ Solution" Mustapha Alahiane*, Rachid Oukhrib, Youssef Ait Albrimi, Hicham Abou Oualid, Rachid Idouhli, Ayssar Nahlé, Avni Berisha, Nizar Z. Azzallou, Mohamed Hamdani. <i>Applied Surface Science</i> , 612 (2023) 155755. DOI: https://doi.org/10.1016/j.apsusc.2022.155755	Journal

28.	<p>“Isolation, characterization and methylene blue adsorption: Application of cellulose from olive sawdust”</p> <p>Fatma. Njeh, M. Hamza, I. Bouaziz, R. Abdelhedi, Makki. Abdelmouleh. <i>Korean Journal of Chemical Engineering</i>, 39, 760–774 (2022) DOI: https://doi.org/10.1007/s11814-021-0931-0</p>	Journal
29.	<p>“Review: Brine Solution: Current Status, Future Management and Technology Development”</p> <p>I. Bouaziz, S. N. Backer, N. Kallayi, R. T. Thomas, G. Preethikumar. M. S. Takriff, T. Laoui, M. A. Atieh. <i>Sustainability</i>, 14(11), 6752 (2022) DOI: https://doi.org/10.3390/su14116752</p>	Journal
30.	<p>“Magnesium and Calcium recovery from RO brine as a pretreatment for a modified Solvay process”</p> <p>Ines Bouaziz* , Mohd Sobri Takriff, Sumina Namboorimadathil Backer , Muataz Ali Atieh , Abdallah Shanableh, Hussain Al Alawadhi, Masoud Mohammed Alawadi, <i>Journal of Water Process Engineering</i>, submitted (2022)</p>	Journal
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32.	<p>Parambath, J. B., Abla, F., Arooj, M., & Mohamed, A. A. (2023). Doping matters in carbon nanomaterial efficiency in environmental remediation. <i>Environmental Science and Pollution Research</i>, 1-13.</p>	Journal
33.	Book Chapter: Biomedical antifouling polymer nanocomposites	Book Chapter

	Authors: J.B. Para, M. Arooj, A.A. Mohamed Chapter Attached. Under final stage of publication Book Title: Advances in Biomedical Polymers and Composites Publisher: Elsevier Publication date:2023/4 Pages:563-589	
34.	S.M. Rafiul Islam; Md. Rafikul Islam; Shamim Mahbub; Kamrul Hasan; Dileep Kumar; Tahani Mazyad Almutairi; Abdallah A.A. Mohammed; Md. Anamul Hoque; D.M. Shafiqul Islam; Amjad Iqbal Phase separation phenomena and physico-chemical variables associated with the triton X 100 + promethazine hydrochloride mixture: influences of hydrotropes <i>Molecular Physics</i> , 2023, https://doi.org/10.1080/00268976.2023.2212535	Journal
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60.	Stereodivergent Desymmetrization of Phenols En Route to Modular Access to Densely Functionalized Quinazoline and Oxazine Scaffolds Gourishetty Srikanth, Anil Ravi, Anusha Sebastian, Monther A Khanfar, Imad A Abu-Yousef, Amin F Majdalawieh, Mohammed I El-Gamal, Bilal O Alkubaisi, Afnan I Shahin, Jobi Joseph, Taleb H Al-Tel <i>The Journal of Organic Chemistry</i> 2023; 88 (3), 1600-1612	Journal
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69.	Monitoring of Pesticide Multi Residues in Selected Cereals Crop Grains in United Arab Emirates. Nasra M. AbdElmageed , Ideisan I. Abu-Abdoun, Kaltham A.H. Kayaf, Malik M. Alamin, Aisha O. Al Jabri and Amna K. Alshamsi. Journal of Agriculture and Ecology research International, Vol. 23 (6), 199-212, 2022.	Journal
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78.	Fatima Gharib, Abdel-Nasser Kawde, Ayman AbdelHamid, and Abdelaziz Elgamouz "Novel Ce-MOF-Modified Carbon Paste Electrode for Electrochemical Sensitive Detection of Ciprofloxacin Antibiotic" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding

79.	Hadjer Boukhatem, Abdelaziz Elgamouz, Abdel-Nasser Kawde, Ayman AbdelHamid, and Khalid Bajou "Electrochemical sensing of Plasminogen as Marker of Diseases with an Inflammatory Component on Graphite Pencil Electrode" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
80.	Rania Ziada, Abdelaziz Elgamouza , Abdel-Nasser Kawde, Soumya Columbus, Kais Daoudi, and Mounir Gaidi "Label Free Electrochemical Detection of Bovine Serum Albumin Using Starch-AgNPs and L-Cysteine Modified Glassy Carbon Electrode" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
81.	Abdelaziz Elgamouz, Abdel-Nasser Kawde, and Ayman AbdelHamid "Exfoliated Carbon Paste Electrode for the Electrochemical sensing of a Wide Spectrum Ciprofloxacin Antibiotic" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
82.	Ayat Al Nimer, Abdel-Nasser Kawde, Abdelaziz Elgamouz, and Ihsan Shehadi "Copper-induced Electrochemical Signal Amplification for the Detection of Adenine in Wastewater Samples" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
83.	Ayman AbdelHamid, Abdelaziz Elgamouz, and Abdel-Nasser Kawde "Polypyrrole Electrodeposition on a Graphenized Surface: Effect of Electrodeposition Technique and Parameters" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
84.	Abdel-Nasser Kawde, Abdelaziz Elgamouz, Ayman AbdelHamid, and Summy Altaher "Copper-Modified Exfoliated Graphite Pencil Electrode for Electrochemical Sensing of 4-Nitrophenol" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
85.	Sondos Nizar, Abdelaziz Elgamouz, Abdelnasser Kawde, and Taher Laoui "Development and Characterization of a Clay-Graphite-CeO ₂ Composite Electrode for Simultaneous Detection of Heavy Metals" Sharjah International Conference	Conference Proceeding

	on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	
86.	Summay Altaher, Abdel-Nasser Kawde, Ayman AbdelHamid, and Abdelaziz Elgamouz "Surface Graphenization of Graphite Pencil Electrode for Highly Sensitive Electrochemical Metronidazole Sensing" Sharjah International Conference on Physics of Advanced Materials (SICPAM), University of Sharjah, UAE, April 25-27, 2023.	Conference Proceeding
87.	Khaled Elkersh, Bushra Tatan, Zahraa Al-Dawood, Kazi Fattah and Kamrul Hasan Anaerobic Digestion For Dairy Manure Treatment, <i>International Conference on Sustainable Environment and Urban Infrastructure 2023 – 2023, Advances in Science and Engineering Technology (ASET) International Conferences.</i>	Conference Proceeding
88.	Damiati S, Awan SA, Peacock M, Schuster B. Functionalization of Graphene Oxide for Label-free Electro-chemical Detection of Hepatic Cancer Cells. 3rd International Electronic Conference on Biosensors, Part of the International Electronic Conference on Biosensors series 8–21 May 2023. Online	Conference Proceeding
89.	Damiati S, Awan SA, Peacock M, Schuster B. Functionalization of Graphene Oxide for Label-free Electro-chemical Detection of Hepatic Cancer Cells. Eng. Proc. 2023, X	Conference Proceeding
90.	Ideisan I. Abu-Abdoun. "Metals In Plastic Materials; Environmental and Health Impacts". International Symposium in Developments in Chemical Industries. 15 Feb. 2023, RAR, United Arab Emirates. Emirates Chemical Society & Iraqi Society of Clinical Biochemistry	Conference Proceeding
91.	Ayat Al Nimer, Abdel-Nasser Kawde, Abdelaziz Elgamouz, and Ihsan Shehadi "Copper-mediated Signal Amplification for the Electrochemical Detection of Nucleic Acids at Novel Clay-based Sensors" Poster Exhibition Day, College of Sciences, University of Sharjah, UAE, May 4, 2023.	Poster
92.	Rania Ziada, Abdelaziz Elgamouza , Abdel-Nasser Kawde, Soumya Columbus, Kais Daoudi, and Mounir Gaidi "Label-Free Electrochemical Detection of Bovine Serum Albumin Using Starch-AgNPs and L-Cysteine Modified Glassy Carbon Electrode" Poster Exhibition Day, College of Sciences, University of Sharjah, UAE, May 4, 2023.	Poster
93.	Summay Altaher, Abdel-Nasser Kawde, Ayman AbdelHamid, and Abdelaziz Elgamouz "Surface Graphenization of Graphite Pencil Electrode for Highly Sensitive Electrochemical Metronidazole Sensing" Poster Exhibition Day, College of Sciences, University of Sharjah, UAE, May 4, 2023.	Poster

94.	Sondos Nizar, Abdelaziz Elgamouz, Abdelnasser Kawde, and Taher Laoui "Development and Characterization of a Clay-Graphite-CeO ₂ Composite Electrode for Simultaneous detection of Heavy Metals" Poster Exhibition Day, College of Sciences, University of Sharjah, UAE, May 4, 2023.	Poster
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Funded Research to be updated

No.	Project Title	Principal Investigator	Grant Source	Amount (AED)
1.	“Machine Learning Approach to enhance Perovskite solar cell Performance”	Dr. Mahreen Arooj	UOS	120,000
2.	Synthesis and characterization of new series of NCN and NNN pincer type ruthenium/iridium complexes and their application in catalytic acceptorless alcohol dehydrogenation (AAD)	Dr. Kamrul Hasan	UOS	79,000.00
3. 3	“Microwave Digestion-Brine Treatment For Sustainable Nutrient Recovery From Camel Waste”	Dr. Kamrul Hasan as Co-investigator	AUS	573,050.00
4. 4	Synthesis and characterization of magnetic Fe ₃ O ₄ @SiO ₂ @Propyl-pyrrole-imine@Pd catalyst for C-C coupling (undergraduate student project)	Dr. Kamrul Hasan	UOS	5000.00
5. 5	Design, Synthesis and Cytotoxic Evaluation of Some Novel 1,2,4-Triazole and 1,2,3-Triazole Hybrid Compounds	Dr. Mohamed El-Naggar	UOS	76000
6. 6	Design Synthesis and cytotoxic evaluation of some novel 1,2,4-Triazole and diazene hybrid derivatives	Dr. Mohamed El-Naggar	UOS	92000
7. 7	Combining modern technologies of microfluidics	Dr. Samar Damiati	UoS	39,000

	and machine learning to generate monodisperse polymer particles			
8. 8	Generation and stability of droplet-based microfluidics using different surfactants	Dr. Samar Damiati	UoS	5000
9. 9	Mechanism of Ciprofloxacin Photo-Electro-degradation through Synergistic Interaction between Ag@TiO ₂ and Polyacrylonitrile Membranes under Visible Light	Prof. Abdelnasser Kawde	UoS	120,000
10. 10	Development of Novel Electrochemical Sensors using Local Clay-based Materials for Sensing Valrubicin Bladder Anticancer Drug	Prof. Abdelnasser Kawde	UoS	36,000
11. 11	Copper-mediated Signal Amplification for the Electrochemical Detection of Nucleic Acids at Novel Clay-based Sensors	Prof. Abdelnasser Kawde	UoS	15,000
12. 12	The Development of Sensitive Electrochemical Sensors Cysteamine Drug Detection,	Prof. Abdelnasser Kawde	UoS	5,000
13. 13	The Development of an Electrochemical Sensor for the Sensitive Detection of the Ciprofloxacin Antibiotic	Prof. Abdelnasser Kawde	UoS	5,000
14. 14	Detection of synthetic cannabinoid receptor agonists using 1-dodecanethiol – stabilized gold nanocluster	Prof. Monther Khanfar	UoS	15,000
15.	Development of ceramic membranes from local clay materials for water filtration, The University of Sharjah Grant, Project Grant V.C.R.G. / R. 447/2022, AED 189,000: 2 year from 1st November 2022. PI: Dr. Abdelaziz Elgamouz	Dr. Abdelaziz Elgamouz	UOS	189,000

16.	Encapsulation of hydroxy Chloroquine into a biodegradable Nanoemulsions, using an edible Argan oil and cyclodextrin for promising treatment (relieve symptoms) of COVID-19 virus infection, The University of Sharjah Grant, Project Grant V.C.R.G./R. 438/2021, AED 80,000: 1 year from 1st October 2021. PI: Dr. Abdelaziz Elgamouz, UOS, 80,000	Dr. Abdelaziz Elgamouz	UOS	80,000
17.	Electrochemical Technique as Powerful Tool to Predict the Selectivity of Clay Ceramic Membranes Towards Metal Ions, The University of Sharjah Students Research Grant, Project Grant Student: Lubna Jamal, AED 15,000: 1 year from 16th December 2021. PI: Dr. Abdelaziz Elgamouz, College of Graduate studies, UOS, 15,000 AED	Dr. Abdelaziz Elgamouz	UOS	15,000
18.	Effect of novel algae extract capped silver nanoparticles on Enterococcus faecalis biofilm and dental pulp stem cells, Name of the principle investigator: Dr. Venkatesh Babu, Names of the co-investigators: Mehmet Omer Gorduysus, Vellore Kannan Gopinath, Abdelaziz Elgamouz, Soumya Sheela Aravind and Priyadharshini Sekar, 40,000 AED	Dr. Venkatesh Babu	UOS	40,000
19.	Development of a thermo-sensitive nanomaterial hydrogel for regenerative endodontic treatment, Principal investigator: Dr. Venkatesh Babu, Names of the	Dr. Venkatesh Babu	UOS	119,500

	co-investigators: Abdelaziz Elgamouz; Sunaina Shetty Yadadi; Priyadharshini Sekar; Soumya Sheela. Aravind; Ensanya Ali Abou Neel and, 119,500 AED, for 27 months, starting from May 1st, 2023,			
20.	Labeled electrochemical detection of proteins involved in cancer pathology, The University of Sharjah undergraduate Students Research Grant, Project Grant Student: Hajar Boukhatem, AED 5,000: 1 year from 6th February 2023. PI: Dr. Abdelaziz Elgamouz, College of Graduate studies, UOS, 15,000 AED	Abdelaziz Elgamouz	UOS	5,000
Total				1,633,550 AED

- In the academic year 2022-23, total 09 competitive, 1 targeted and 1 seed grant and have been submitted form the faculty members of Chemistry Department.

Membership in Research Entities

No.	Group Title	Group Members	Start Date	Coordinator
1.	Desalination Research Group	Tahar Laoui; Khalil Abdelrazek Khalil Abdelmawgoud; Chaouki Ghenai; Abdelaziz Elgamouz; Muhammad Tawalbeh; Bassam Abdullah Ayed Khuwaileh ; Ines Bouaziz	2019	Muataz Ali .Prof
2.	“Environment and Cancer Research” Group	Waseem Riad El-Huneid; Wael Abdel-Rahman Hassan; Yasser Khalil Bustanji; Ayssar Nahle; MoezAllIslam Ezzat Faris; Maha Mohamed Saber; Lara Bou Malhab	2015	Eman Farouk Mahmoud Abu-Gharbieh
3	“Pure and Applied Chemistry” Research Group	Raed Al-Qawasmeh, Abdelnasser Kawde, Ihsan Shehadi, Ahmed Elmehdi, Mohamed Elnaggar, Kamrul Hassan, Abdelaziz Elgamouz	2021	Prof. Monther Khanfar

Research Events/Activities

No.	Event Name	Type*	Scope**	Date	Beneficiaries
1.	3rd Conference of Russian and Arabs Rectors /Organizing	conference	local	May 31, June 1, 23	UOS faculty, students
2.	Day2-> University of Sharjah – Skoltech Joint:"AlfoL Research Collaboration in AI for Life workshop"	Workshop	local	May 23rd, 2023	UOS faculty, students
3.	Droplet Insider vol. 2: Droplet microfluidics-assisted transcriptome sequencing of the HIV-Infected ‘Latent Reservoir	Workshop	local	27.04.2023	UOS faculty, students
4.	Economic Impact of Research – Innovation and Commercialization of Nanotechnology”	Seminar	local	May 1st, 2023	UOS faculty, students
5.	Exploring tRNAs and their modifications and crosstalk using Nano-tRNAseq, a nanopore RNA sequencing approach	Seminar	local	27.04.2023	UOS faculty, students

6.	Fe ₃ O ₄ @SiO ₂ supported Co(III) amine-bis(phenolate) complex as highly efficient recyclable catalyst for the CO ₂ fixation to cyclic carbonates at mild conditions	Seminar	local	17.05.2023	UOS faculty, students
7.	Copper-Mediated Signal Amplification for the Electrochemical Detection of Nucleic Acids at Novel Clay-Based Sensors” that was offered by Ayat Tawfiq Al Nimer, Master Thesis Defense	MSc. Thesis Defense	local	9th May 2023	UOS faculty, students
8.	Efficient Surface Enhanced Raman Spectroscopy Sensing of Bovine Serum Albumin using Green Synthesized Silver Nanoparticles” that was offered by Rania Zaid Ghabboun, Master Thesis Defense	MSc. Thesis Defense	local	9th May 2023	UOS faculty, students
9.	Modified Graphite Pencil Electrode Based on Graphene Oxide Modified Fe ₃ O ₄ for Ferrocene Mediated Electrochemical Detection of Hemoglobin” that was given by Dr. Abdelaziz Elgamouz	Seminar	local	13th March 2023	UOS faculty, students
10.	Graduate Studies from Acceptance to Graduation” which was given by Dr. Ra’fat Alawadhi and Dr. Ali Bunasif, the Dean and the Vice Dean of the College of Graduate Studies	Workshop	local	5th October, 2022	UOS faculty, students
11.	Simulations” which was given by Dr. Wiam Elshami, Assistant Professor, College of Health Sciences, Dr. Rachik Soualah, Assistant Professor, Department of Applied Physics and Astronomy, College of Sciences and Dr. Mahreen Arooj, Assistant	Workshop	local	23th May, 2023	UOS faculty, students
12.	Materials for Renewable Energy and Energy Efficiency Course	Seminar	local	March 23rd, 2023	UOS faculty, students
13.	Oxygen Evolution Reaction on Transition Metals: Promoting Water Dissociation by Tuning the Surface Oxygen Vacancies	Seminar	local	01.03.2023	UOS faculty, students
14.	Research Fair Webinar Series” Workshop That was held on	Workshop	local	Nov 23- 2022	UOS faculty, students

	23/11/2022 between 4:00 and 5:30 pm.				
15.	Sharjah International Conference on Physics of Advanced Material	Workshop	local	26.04.2023	UOS faculty, students
16.	Skoltech Joint Research Collaboration in AI for Life workshop at the University of Sharjah	Workshop	local	23.05.2023	UOS faculty, students
17.	3rd Conference of Russian and Arabs Rectors /Organizing	Workshop	local	May 31, June 1, 23	UOS faculty, students
18.	Polypyrrole Electrodeposition into 3D Graphenized Substrate: Effect of Technique and Parameters, Speaker: Dr. Ayman Amin, Pure and Applied Chemistry Research Group.	Seminar	local	01/06/2023	UOS faculty, students

*Event Types: Symposium, Seminar, Conference, Workshop, Exhibition, Other

** Scope: Local (University Level), National, International

Research Seminars within the department of Chemistry

No.	Speaker	Affiliation	Title	Date
1.	Prof. Ihsan Shehadi	UOS	Computational Tools: Development and Applications	24/04/2023
2.	Dr. Tanveer ul Haq	UoS	Advanced Functional Materials and Self-supported Electrodes: Seawater Electrolysis and Chemical Energy Conversion	29/09/2022
3.	Dr. Tanveer ul Haq	UoS	Oxygen Evolution Reaction on Transition Metals: Promoting Water Dissociation by Tuning the Surface Oxygen Vacancies	01/03/2023
4.	Dr. Abdelaziz Elgamouz	UOS	Modified Graphite Pencil Electrode Based on Graphene Oxide Modified Fe ₃ O ₄ for Ferrocene Mediated Electrochemical Detection of Hemoglobin" that was given by Dr. Abdelaziz Elgamouz	13/03/2023
5.	Dr. Abdelaziz Elgamouz	UOS	Green synthesized Metal Nanoparticles as colorimetric and photometric sensors of environmental pollutants, MSc ESE Graduate Seminar - Spring 2023	14/02/2023
6.	Dr. Kamrul Hasan	UoS	Fe ₃ O ₄ @SiO ₂ supported Co(III) amine-bis(phenolate) complex as highly efficient recyclable catalyst for the CO ₂ fixation to cyclic carbonates at mild conditions	17/05/2023

2. Community Engagement

Community Service

No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR or Referee (Total = 83)				
1.	Dr. Mahreen Arooj reviewed a paper for the Journal of Molecular Modeling " Structural and functional basis of red palm weevil: pathogen interactions leading towards enhanced crop production in Date palms" by: Meshari Alazmi*, Alshammari N., Naimah A. Alanazi, Abdel Moneim E. Sulieman Manuscript Number: JMMO-D-21-00458	Journal	June, 2021	Journal of Molecular Modeling
2.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the Journal of Molecular Liquids: " Adsorption and corrosion inhibition performance of two planar rigid pyridinecarboxaldehyde-based double Schiff bases for mild steel in HCl solution: Experimental and computational investigations". On 2 Feb, 2022. Manuscript Number: MOLLIQ-D-22-00566	Journal	Feb, 2022	Journal of Molecular Liquids
3.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the Arab Journal of Chemistry: "Experimental and theoretical approach for novel imidazolium ionic liquids as smart corrosion inhibitors for mild steel in 1.0 M hydrochloric acid" by A. Nahlé, R. Salim, F. EL Hajjaji, E. Ech-chihbi, A. Titi, M. Messali4, S. Kaya, B. ElBrahimi, M. Taleb, on 9-3-2022. Manuscript Number: ARABJC-D-22-00305	Journal	March, 2022	Arab Journal of Chemistry

4.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the Journal of Molecular Liquids: "Adsorption process of new corrosion inhibitors based on Imine derivative for Mild Steel/ 1 M HCl interface: Experimental & quantum studies". On 18 May 2022. Manuscript Number: MOLLIQ-D-22-02683	Journal	May, 2022	Journal of Molecular Liquids
5.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the Journal of Molecular Liquids: "Adsorption process of new corrosion inhibitors based on Imine derivative for Mild Steel/ 1 M HCl interface: Experimental & quantum studies". On 30 June 2022. Manuscript Number: MOLLIQ-D-22-02683R1	Journal	June, 2022	Journal of Molecular Liquids
6.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the Arab Journal of Chemistry: "Spherical polyphosphate/montmorillonite nanocomposites as potential enhanced efficiency fertilizers" by Zhiguang Liu ... et al, on 5-3-2023. Manuscript Number: ARABJC-D-23-00184	Journal	March, 2023	Arab Journal of Chemistry
7.	Mr. Ibrahim Abdel-Rahman reviewed a paper for the journal Anti-Corrosion Methods and Materials: "Influence of Technological Synthesis Conditions on Corrosion Behavior and Mechanical Properties for NiTi Alloys". Manuscript ID: ACMM-05-2023-2814. On 03 June 2023.	Journal	June, 2023	Anti-Corrosion Methods and Materials
8.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Synthesis and Characterization of Corn Starch grafted Guar gum composite with Tamarind Kernel Powder". SURBHI BHATI. OJC-14153-22.	Journal	July 4, 2022	Oriental Journal of Chemistry
9.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article	Journal	July 4, 2022	Oriental Journal of Chemistry

	entitled: "Extensive Employment of Chemically Treated <i>Elephas maximus</i> Dung in Sequestration of Oxyfluorfen: Batch, Isothermal and Kinetic Modeling". PREETHI G. OJC-14183-22.			
10.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Extensive Employment of Chemically Treated <i>Elephas maximus</i> Dung in Sequestration of Oxyfluorfen: Batch, Isothermal and Kinetic Modeling". PREETHI G. OJC-14183-22.	Journal	August 10, 2022	Oriental Journal of Chemistry
11.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Polyethene glycol (PEG-400): An efficient and eco-friendly catalyst for the preparation of N-benzylideneaniline by Schiff base reaction". P. JINDAL. OJC-14202-22	Journal	August 10, 2022	Oriental Journal of Chemistry
12.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Succinimide- <i>N</i> -sulfonic acid catalyzed one pot, efficient synthesis of substituted pyrazoles". Sagar R. Kande. OJC-14229-22	Journal	August 10, 2022	Oriental Journal of Chemistry
13.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Phytochemical and Antimicrobial Analysis of Root Extract of <i>Asparagus Adscendens</i> ". REKHA TRIPATHI. 14143-22.	Journal	September 2, 2022	Oriental Journal of Chemistry
14.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Synthesis and characterization of metal (II) Phthalocyanine containing N, Ndimethyl phenyl moieties". FASIULLA. 14245-22.	Journal	September 11, 2022	Oriental Journal of Chemistry
15.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final	Journal	September 11, 2022	Oriental Journal of Chemistry

	recommendation for the article entitled: "Kinetic studies on decolourization of Amaranth by Solar/H ₂ O ₂ process". RAJA R. 14249-22.			
16.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Comparative Assessment of Single and Mixed Photosensitizers Using Erythrosin B And Tartrazine Yellow Dye System in Photogalvanic and Dye Sensitized Solar Cells". VIRENDRA SONI 14253-22.	Journal	September 17, 2022	Oriental Journal of Chemistry
17.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "VISCOMETRIC PROPERTIES OF AQUEOUS SODIUM AND POTASSIUM SALT OF L-LEUCINE". MAHENDRA BAPURAO DHANDE OJC-14238-22.	Journal	October 4, 2022	Oriental Journal of Chemistry
18.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Rheology of non-additive olive oil used as a biodegradable lubricant". Ioana Stanciu 14243-22.	Journal	October 4, 2022	Oriental Journal of Chemistry
19.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Study of Zn(II)- salicylidene-4-(p-chlorophenyl)-2-aminothiazole complex by polarographic method with its antibacterial activity". MANOHAR SOLANKI 14250-22.	Journal	October 6, 2022	Oriental Journal of Chemistry
20.	Reviewed a paper for the "Oriental Journal of Chemistry ", Title: "A Facile and Convenient Method to Reduce Organo Azides under Electrochemical Condition and Investigation of the Process thorough Cyclic Voltammety. Paliakkara Lona Deena. OJC-14301-22.	Journal	October 8, 2022	Oriental Journal of Chemistry
21.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "MICROWAVE ASSISTED	Journal	October 8, 2022	Oriental Journal of Chemistry

	SYNTHESIS OF NOVEL 2-PYRAZOLINES FROM FURAN BASED CHALCONES AND STUDY THEIR ANTIMICROBIAL ACTIVITY". SANTOSH LAXMAN KUMBHARE 14226-22.			
22.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Study of Zn(II)-salicylidene-4-(p-chlorophenyl)-2-aminothiazole complex by polarographic method with its antibacterial activity". MANOHAR SOLANKI 14250-22.	Journal	October 15, 2022	Oriental Journal of Chemistry
23.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "A Facile and Convenient Method to Reduce Organo Azides under Electrochemical Condition and Investigation of the Process thorough Cyclic Voltammetry". Paliakkara Lona Deena. OJC-14301-22.	Journal	October 15, 2022	Oriental Journal of Chemistry
24.	Reviewed a paper for the "Oriental Journal of Chemistry ", Title: "Studies on polymeric hydroxy compounds and the electro-coagulation process for removing arsenic from ground water". Anurag Tewari. OJC-14315-22.	Journal	November 4, 2022	Oriental Journal of Chemistry
25.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Nano-sized metal oxides and their use as a surface disinfectant against COVID-19: Review and Perspective". Hajo Idriss. OJC-14336-22.	Journal	November 18, 2022	Oriental Journal of Chemistry
26.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "One pot multicomponent synthesis of 3-(substituted phenyl)-5-oxo-3,4,5,6-tetrahydroimidazo[4,5-c]pyrazole-2(1H)-carbaldehyde derivatives act as antibacterial	Journal	January 21, 2023	Oriental Journal of Chemistry

	agents". BHASKAR SADASHIV DAWANE. OJC-14339-22.			
27.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Development and application of newly synthesized Guar gum Diamino Benzoic Acid (GDABA) resin for elimination of hazardous waste metal ions from industrial effluents". MONIKA RATHORE. OJC-14370-22.	Journal	January 21, 2023	Oriental Journal of Chemistry
28.	Reviewed a paper for the "Oriental Journal of Chemistry ", Title: "A Review on Natural Photosensitizer based Dye-Sensitized Solar Cells For Photoelectric Conversion". SAKSHI CHAUDHARY. OJC- 14371-22.	Journal	March 5, 2023	Oriental Journal of Chemistry
29.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Rheological behavior of corn oil at different viscosity and shear rate". Ioana Stanciu. OJC-14445-23.	Journal	March 9, 2023	Oriental Journal of Chemistry
30.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Alkaloid, Phenolic profiling and Biological Activities of Caralluma russeliana Methanol Extracts from Al Baha region, Saudi Arabia". Nawaf Alsenani. OJC- 14430-23.	Journal	April 3, 2023	Oriental Journal of Chemistry
31.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Green Corrosion Inhibitory Efficiency of Isolated flavonoid From <i>Spermacoce hispida</i> Leaves on Mild Steel in Acid Medium". S. DURGADEVI. OJC- 14500-23.	Journal	April 23, 2023	Oriental Journal of Chemistry
32.	Dr. Ayssar Nahlé has reviewed a paper for the "Oriental Journal of Chemistry ",	Journal	April 24, 2023	Oriental Journal of Chemistry

	Title: "Synthesis and design of novel morpholinyl mannich bases for potential inhibitory activity of SARS-CoV-2 main protease". Mohamed R. Elamin. OJC- 14479-23.			
33.	Dr. Ayssar Nahlé has reviewed a paper for the "Oriental Journal of Chemistry", Title: "Molecular Docking, Synthesis of Novel Schiff Base 1, 3-Thiazine Compounds from 3-Methoxy Chalcone and Evaluation of their Anxiolytic Activity". Sonu, Harpreet singh. OJC- 14465-23.	Journal	May 12, 2023	Oriental Journal of Chemistry
34.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "Molecular Docking, Synthesis of Novel Schiff Base 1, 3-Thiazine Compounds from 3-Methoxy Chalcone and Evaluation of their Anxiolytic Activity". Sonu, Harpreet singh. OJC-14465-23.	Journal	May 18, 2023	Oriental Journal of Chemistry
35.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided for the article entitled: "Phytochemical Analysis and <i>In vitro</i> Anti-oxidant Activities of Medicinal Plants <i>Cyperus rotundus</i> , <i>Tinospora cordifolia</i> and their Formulation". S. Gomathi. OJC- 14468-23.	Journal	May 18, 2023	Oriental Journal of Chemistry
36.	As a member of editorial board of the "Oriental Journal of Chemistry", Dr. Ayssar Nahlé has provided the final recommendation for the article entitled: "FROM MOLECULES TO MEDICINE: THE REMARKABLE PHARMACOLOGICAL ODYSSEY OF QUINOLINE AND ITS DERIVATIVES". Neil B. Panchal. OJC- 14492-23.	Journal	May 18, 2023	Oriental Journal of Chemistry
37.	Dr. Ayssar Nahlé Represented the Department of Chemistry during the "13 th University of Sharjah Open Day".	Open day activity	May 3-6, 2023	UAE Schools
38.	"Impact of Early Pericardial Fluid Chymase Activation after Cardiac Surgery"1132786_Manuscript	Journal Frontiers in Cardiovascular Medicine	March, 2023	Frontiers in Cardiovascular Medicine

39.	Exploring the synergistic mechanism of AP2A2 transcription factor inhibition via molecular modeling and simulations as a novel computational approach for combating breast cancer: in-silico interpretations” MOBI-D-23-00114”	Journal Molecular Biotechnology	April,2023	Molecular Biotechnology
40.	Computational method-based prediction of ligand binding site(s) of carrier protein Vibeizonuo Rupreo, Jhimli Bhattacharyya*	Journal Discover Materials	April,2023	Discover Materials
41.	Title: Micronome revealed miR-205-5p as key regulator of VEGFA during cancer related angiogenesis in Hepatocellular carcinoma Micronome revealed miR-205-5p as key regulator of VEGFA during cancer related angiogenesis in Hepatocellular carcinoma Manuscript No: MOBI-D-22-00890	Journal Molecular Biotechnology	May,2023	Molecular Biotechnology
42.	Title: Uncovering the interaction interface between Harpin (Hpa1) and rice aquaporin (OsPIP1;3) through protein-protein docking: An in-silico approach Manuscript No: MOBI-D-22-00828	Journal Molecular Biotechnology	Dec,2022	Molecular Biotechnology
43.	Dr. Kamrul hasan reviewed “Synthesis of a doped α -Fe ₂ O ₃ /g-C ₃ N ₄ catalyst for high-efficiency degradation of diazinon contaminant from liquid wastes	Magnetochemistry,	11-10-1022	
44.	Dr. Kamrul Hasan reviewed <u>Chemical Structure of Stabilizing Layers of Negatively Charged Silver Nanoparticles as an Effector of Shifts in Soil Bacterial Microbiome under Short-Term Exposure</u>	International Journal of Environmental Research and Public Health	11-10-22 and 25-10-22	
45.	Dr. Kamrul Hasan reviewed <u>Red Flags and Adversities on the Way to the Robust CE-ICP-MS/MS Quantitative Monitoring of Self-Synthesized Magnetic Iron Oxide(II, III)-Based Nanoparticle Interactions with Human Serum Proteins</u>	Molecules	26-11-2022	
46.	Dr. Kamrul Hasan reviewed Silver nanoparticles formulation by using avocado peel bio actives as green	Micromachines	05-12-2022	

	matrix encapsulated by date palm mucilage hydrogel loaded on dressings for efficacy evaluation against pus cell isolates			
47.	Dr. Kamrul Hasan reviewed In situ synthesis and deposition of AgNPs on the alkali-pretreated cotton/flax blended denim fabric for antibacterial efficacy	Chemical Papers	02-02-2023	
48.	Dr. Kamrul Hasan reviewed Chitosan-Imidazolium Core-Shell Nanoparticles of Gd-Mn-Mo Polyoxometalate as Novel Potential MRI Nano-agent for Breast Cancer Detection	Micromachines	09-03-2023	
49.	Dr. Kamrul Hasan reviewed Ferrite Nanoparticles as Catalyst in Organic Reactions: A Mini Review	Magnetochemistry	13-04-2023 and 08-05-2023	
50.	Dr. Kamrul Hasan reviewed Advances in the Greener Synthesis of Chromopyrimidine Derivatives by a Multicomponent Tandem Oxidation Process	ACS Omega	26-04-2023	
51.	Magnetic alginate-carboxymethyl cellulose to immobilize copper nanoparticles as a green and sustainable catalyst for 4-nitrophenol reduction	Heliyon	26-04-2023	
52.	Dr. kamrul Hasan reviewed " <i>Liquid assisted Grindstone Chemistry: An eco-friendly scalable approach for diverse Brønsted acid-catalyzed mechanochemical domino multicomponent reactions by employing the reactivity of cyclic 1,3-diketones at ambient conditions</i> " (Manuscript ID: d6557e4b-1dc3-4014-a37d-d7c693858590),	Scientific Reports	05-01-2023	
53.	Reviewed by Dr. Tanveer ul Haq Title: Fabrication of ultradurable and flexible NiPx-based electrode toward high-efficient alkaline seawater splitting at industrial grade current density Manuscript Number: sml.202205689	Journal		Small
54.	Reviewed by Dr. Tanveer ul Haq Title: Heterojunction of metal plasmas and Co-O nanofilm for ultraefficient activity to oxygen evolution catalyst Manuscript Number: Ae-2023-02998q	Journal		ACS Applied Energy Materials
55.	Reviewed by Dr. Tanveer ul Haq Title: Density Controlled Metal Nanocluster with modulated surface	Journal		Advanced Functional Materials

	for pH universal and Robust Water Splitting Manuscript Number: adfm.202209119			
56.	Reviewed by Dr. Tanveer ul Haq Title: Monodispersed MOF-modified nanofibers as versatile building blocks for the ion regulations in safe lithium sulfur battery Manuscript Number: am-2023-03055q.R1	Journal		ACS Applied Material Interface
57.	Reviewed by Dr. Tanveer ul Haq Title: Behavior of NiFe alloy nanowires in KOH and NaCl solution for water electrolysis Manuscript Number:EA23-1742	Journal		Electrochimica Acta
58.	Reviewer: Samar Damiaty A. H. Al-Timemy, Y. Serrestou, R. N. Khushaba, S. Yacoub and K. Raoof, "Hand Gesture Recognition With Acoustic Myography and Wavelet Scattering Transform," in <i>IEEE Access</i> , vol. 10, pp. 107526-107535, 2022, doi: 10.1109/ACCESS.2022.3212146.	Journal		<i>IEEE Access</i>
59.	Reviewer: Samar Damiaty Gorny H, Mularoni A, Delcros JG, Fretton C, Preto J, Krimm I. Combining nano-differential scanning fluorimetry and microscale thermophoresis to investigate VDAC1 interaction with small molecules. <i>J Enzyme Inhib Med Chem</i> . 2023 Dec;38(1):2121821. doi: 10.1080/14756366.2022.2121821. PMID: 36650907; PMCID: PMC9858421.	Journal		<i>J Enzyme Inhib Med Chem</i>
60.	Reviewer: Samar Damiaty Samitier J, Sierra-Agudelo J, Subirada F, Rodriguez-Trujillo R. Low-cost 3D printed inertial flow microfluidic devices for cells isolation in liquid biopsies. 2023	Journal		<i>Frontiers in Lab on a Chip Technologies - Micro- and Nano-fabrication.</i>
61.	Editor: Samar Damiaty Mesquita P, Gong L and Lin Y (2022) Low-cost microfluidics: Towards affordable environmental monitoring and assessment. <i>Front. Lab. Chip. Technol.</i> 1:1074009. doi: 10.3389/frlct.2022.1074009	Journal		<i>Front. Lab. Chip. Technol.</i>
62.	Editor: Samar Damiaty Park J, Ali M, Kim W. Droplet Microfluidic Technologies for Next-Generation High-Throughput Screening. 2023	Journal		<i>Frontiers in Lab on a Chip Technologies-Imaging and Detection</i>

63.	<u>Dr. Abdelaziz reviewed the paper:</u> Chlorella-residual based cellulose nanofiber and their quater-2 nization modification and efficient anionic dyes adsorption, materials-2351383	Journal	materials	5/3/2023
64.	<u>Dr. Abdelaziz reviewed the paper:</u> CHALLENGES AND POTENTIAL OUTCOMES OF RECENT ADVANCES IN MICR ... water-2309367	Journal	water	4/20/2023
65.	<u>Dr. Abdelaziz reviewed the paper:</u> Tryptophan-based organoclay for aqueous naphthol blue black ... chemistry-2182983	Journal	chemistry	2/14/2023
66.	<u>Dr. Abdelaziz reviewed the paper:</u> Nanosized Functional Molecularly Imprinted Polymer for the 1 sensory detection of Penicillin G in Pharmaceutical samples. pharmaceuticals-1965707	Journal	pharmaceutic s	10/15/2022
67.	<u>Dr. Abdelaziz reviewed the paper:</u> Advances in Applied Ceramics: Structural, Functional and Bioceramics Performance of Wollastonite/Eggshell Powder Added Concrete in Different Environments, Manuscript ID AAC3454	Journal	Advances in Applied Ceramics: Structural, Functional and Bioceramics	4/12/2022
68.	<u>Dr. Abdelaziz reviewed the paper:</u> Lychee-like SnO ₂ hollow microspheres sensitized by carbon quantum dots for highsensitivity ethanol sensor, SNR-D-23-00038	Journal	Sensors and Actuators Reports	
69.	<u>Dr. Abdelaziz reviewed the paper:</u> Packed OV-SnO ₂ -Sb bead-electrodes for enhanced electrocatalytic oxidation of micropollutants in water, manuscript ID: WR76950	Journal	Water research	29/05/2023
70.	<u>Dr. Abdelaziz reviewed the paper:</u> Preparation of Ni/Co layered double hydroxide hollow cakes as a specific and sensitive sensor to monitor the production of hydrogen peroxide in formulated beverages Measurement, MEAS-D-23-01500	Journal	Measurement	06/06/2023
71.	Azeera Abdul Rahim Representative from the Chemistry Department for 13 th UoS Open Day.		2 nd – 6 th May 2023	Students, faculty and staff of UoS, High school students

	Member of the 13 th Open Day Committee at College of Science.			from various schools in UAE.
72.	Mona Kanj represented the Department during the 13 th Univ. Open Days	University Open Days	May 3 rd 2023	UAE Schools
73.	Mona Kanj - Chair of the Organizing Committee in “The Science Fair Festival for High School Students”.	College of Sciences-Silver Jubilee event	May 2 nd 2023	UAE Schools College of Sciences
74.	CHAIR (Total = 1)			
75.	Session Chair at the 5 th international Conference on the Arabs' and Muslims' Sciences	Dr. Abdelaziz	April 4-6 2021	International community
76.	Session chair at SICPAM- Conference	Dr.Mahreen Arooj	25-27 April	International community
77.	Mona Kanj - Chair of the Scientific Committee in “The Science Fair Festival for High School Students”	Competition Event	2 nd May 2023	Local for schools and College members
78.	Session chair - Empowering Education in Sciences with AI	Dr. Samar Damiaty	26.01.2023	International community
79.				
Membership (Total = 3)				
80.	IEEE, USA	Samar Damiaty	2021-present	member
81.	ÖGMBT, Austria	Samar Damiaty	2011 - present	member
82.	American Chemical Society	Prof. Abdelnasser Kawde	2009 - Present	member
TPC (Total = 1)				
TV/NEWSPAPERS (Total = 1)				
1.	Interview with UOS-Media published on social media	Ihsan	March 29, 2021	UAE community
2.				
JUDGE (Total = 7)				
1.	The “Chemistry Senior Research Project Presentations, Jouman Abdulsalam Aswad (U14220077) Mariam Salem, (U14121212), Reem Mahmoudu, (U16200444)		May 4, 2021	Senior chemistry Students.
2.	Mona Kanj – Judge in “The Science Fair Festival for High School Students”.	Competition Event	2 nd May 2023	Local for schools and College members

3.	Kamrul Hasan Chemistry senior research project		3 rd May, 2023	
4.	Kamrul Hasan Judging 9 th chemistry festival student project	Competition Event	12 th October, 2022	Department of chemistry
5.	(Dr. Tanveer) Senior Research Presentation Seminar	21/12/2022 Senior chemistry Students.	21/12/2022	Senior chemistry students
6.	Reviewer: Samar Damiaty - Senior Research Presentation Seminar	21/12/2022	21/12/2022	Senior chemistry students
7.	Reviewer: Samar Damiaty - Senior Research Presentation Seminar	03/05/2023	03/05/2023	Senior chemistry students
SPEAKER (Total = 1)				
1.	Oral Presentation on Hybrid Technologies Development for Brine Management	Dr. Ines	October, 2021	International Conference on: Water, Energy and Climate Change, University of Sharjah(UAE)
2.	Simulation workshop	Dr.Mahreen Arooj	23 rd May,2023	
3.	"Empowering Education in Sciences with AI"	Dr.Mahreen Arooj	Thursday 26th January, 2023	
4.	UAE Codes Day 2022	Dr.Mahreen Arooj	Thursday 27th October,2022	
5.	Fe ₃ O ₄ @SiO ₂ supported Co(III) amine-bis(phenolate) complex as highly efficient recyclable catalyst for the CO ₂ fixation to cyclic carbonates at mild conditions	Dr. Kamrul Hasan	17 th May, 2023	Departmental seminar
6.	Oral Presentation on "Heterointerface Engineering: A sustainable pathway to Green Hydrogen generation from direct seawater electrolysis	Dr. Tanveer ul Haq	April 25, 2023	Sharjah International Conference on Physics of Advanced Materials
EDITOR (Total = 17)				
1.	Guest Associate Editor in Molecular Diagnostics and Therapeutics. Journal: Frontiers in Molecular Biosciences Research Topic: The Dual-Use Dilemma for Biomimicry - Volume II	Samar Damiaty	On-going	Guest Associate Editor
2.	The Future of Lab on a Chip Technologies: An Early Career Scientists' Perspective	Topic Editor: Samar Damiaty	On-going	Frontiers in Lab on a Chip Technologies - Imaging and Detection
3.	Frontiers in Lab on a Chip Technologies 2023	Associate Editor: Samar Damiaty	On-going	

4.	The Future of Lab on a Chip Technologies: An Early Career Scientists' Perspective	Topic Editor: Samar Damiati	On-going	Frontiers in Lab on a Chip Technologies - Imaging and Detection
5.	<i>Organic and Medicinal Chemistry International Journal</i> (OMCIJ)	Ibrahim Abdel-Rahaman	On-going	Editorial Member
6.	<i>European Journal of Chemistry, Environment and Engineering Sciences</i> " (EJCEES)	Ibrahim Abdel-Rahaman	On-going	Editorial Member
7.	<i>Annals of Chemical Science Research</i> (ACSR)	Ibrahim Abdel-Rahaman	On-going	An Honorable Associate Editorial Board member
8.	Arabian Journal of Chemical Environmental Research (AJCER)	Ibrahim Abdel-Rahaman	On-going	Editorial Member
9.	ISRN (International Scholarly Research Network) "Corrosion" journal	Dr. Ayssar Nahlé	On-going	Member, Editorial Board. 2011-Present
10.	"Journal of Chemistry and Applications"	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2014-Present
11.	"Oriental Journal of Chemistry"	Dr. Ayssar Nahlé	On-going	Honorable Member of International Advisory Board 2018-Present
12.	"International Journal of Recent Developments in Sciences"	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2018-Present
13.	Journal of Applied Biology & Biotechnology".	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2018-Present
14.	"Region-Metals Journal"	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2018-Present
15.	"Materials Science: Advanced Industrial Materials"	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2018- Present
16.	"Organic Chemistry Plus" (OCP)	Dr. Ayssar Nahlé	On-going	Member, Editorial Board 2021-Present
17.	"Materials Chemistry and Physics"	Dr. Ayssar Nahlé	On-going	Editorial Manager (EM) 2020-Present
ORGANIZER (Total = 2)				
1.	Organizing Committee ICSH21	Ihsan Shehadi	April 4-6, 2021	International conference

2.	Chair of the Organizing and Scientific Committee in “The Science Fair Festival for High School Students”	Mona Kanj	2 nd May 2023	Local- University
External Committees (Total = 1)				
1.	ACS regional conference -2023	Ihsan Shehadi	MArch 2023	Co-chair of the confernce

*Event Types: Newspaper articles, TV & Radio, Seminars & Workshops, Public Lectures ...etc.

** look to previous section in 5.6 Student Extra-Curricular Activities

DEPARTMENT OF APPLIED BIOLOGY

5. Faculty and Professional Staff

List of Full-Time Faculty Members:

ID	Name	Rank	Department	Specialization	Comments
101234	Kareem Mosa	Associate Professor	Applied Biology	Plant Biotechnology	Chairman of DAB Joined Sept. 1, 2014
10836	Ismail Saadoun	Professor	Applied Biology	Microbiology	Chairman of DAB Joined 10/2/2009
101555	Elsiddig Elsheikh	Professor	Applied Biology	Environmental Biotechnology	Joined Sept. 1, 2020
10939	Ali El-Keblawy	Professor	Applied Biology	Environmental Biotechnology	Joined Jan. 30, 2011
10344	Prof. Ihsan Ali Mahasneh	Professor	Applied Biology	Biotechnology & Genetic	Joined Sept. 1, 2011
101143	Abdelaziz Tlili	Associate professor	Applied Biology	Human molecular genetics	Assistant Dean for Graduate Studies Joined Jan. 27, 2013
101318	Hassen Hadj Kacem	Associate Professor	Applied Biology	Molecular Biology/ Molecular Human Genetics	Joined Sept. 1, 2015
101317	Khalid Bajou	Associate Professor	Applied Biology	Biochemistry and cell biology	Joined Sept. 1, 2015
101717	Abdullah Al Mutery	Assistant	Applied Biology	Genetics	Joined Sept. 1, 2014
10920	Ban Al-Joubori	Lecturer	Applied Biology	Molecular Biology/Pharmaceutical Microbiology	Joined Sept. 1, 2010
101028	Uzma Inayat	Lecturer	Applied Biology	Bioinformatics/Genetics	Joined Sept. 1, 2012
10919	Racha Al-Khoury	Lecturer	Applied Biology	Biochemistry	Joined Sept. 1, 2010

101165	Tasneem Obaid	Lecturer	Applied Biology	Molecular Genetics	Joined Sept. 1, 2012
101166	Islam Eltayeb	Lecturer	Applied Biology	Medical Microbiology	Joined Sept. 1, 2014

Teaching Load

Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
			Contact Hours**	Credit Hours**	Contact Hours	Credit Hours
Kareem Mosa	Associate Professor	Full		7		5.33
Ismail Saadoun	Professor	Full		12.9		12.99
Elsiddig Elsheikh	Professor	Full		11.9		12
Ali El-Keblawy	Professor	Full		8.5		12
Ihsan Mahasneh	Professor	Full		13		12.6
Abdelaziz Tlili	Associate professor	Full		9		10.2
Khalid Bajou	Associate Professor	Full		14.33		13.66
Hassen Hadj Kacem	Associate Professor	Full		18		8
Abdullah Al Mutery	Assistant Professor	Full		13		12
Ban Al-Joubori	Lecturer	Full	24	10.5	20	12
Uzma Inayat	Lecturer	Full	27	13.5	15	7.5
Racha Al-Khoury	Lecturer	Full			18	9
Islam Eltayeb	Lecturer	Full	27	13.5	15	7.5
Tasneem Obaid	Lecturer	Full	21	12	18	9

*Rank: Professor, Associate Professor, Assistant Professor, Lecturer

** For most courses: contact hours = credit hours.

For courses of type LAB or LEB (lecture and lab):

Credit hours = course credit hours published in university catalogue,

Contact hours = actual time the instructor spends in contact with students.

Example: Physics Lab, credit hours = 1, contact hours = 3.

List of Professional Staff

ID	Name	Department	Job Title
201750	Mona Ibrahim	Applied Biology	Lab. Supervisor
20763	Aisha Echtibi	Applied Biology	Lab. Supervisor
201805	Mona Mahfood	Applied Biology	Lab. Supervisor
201933	Muna Abdul Rahim Al Ali	Applied Biology	Lab. Supervisor
202971	Alya Al Khayyal	Applied Biology	Lab. Supervisor

201374	Mariam Saho	Applied Biology	Admin. Asst.
201053	Sulfikkar Kunjimon Thazat	Applied Biology	Office attendant
70380	Khawla Younus	Applied Biology	Teaching Assistant
70305	Amna M.A. Essa	Applied Biology	Teaching Assistant

Graduated Students

#	Name	ID#	Degree	Senior Project Title
Fall 2022/2023				
6.	Saoud Faisal Shaikh	U1910357	BSc	ANTI-ANGIOGENIC EFFECT OF 16K PROLACTIN DERIVED PEPTIDES
7.	Amal Adel Al Nasser	U1620010	BSc	
8.	Zainah Nabil Abuhamra	U1810191	BSc	
9.	Mezna Mohammed Alshehhi	U1710371	BSc	
10.	Nouha Bentebbal	U1910106	BSc	
11.	Sadil Sahil Aqrabawi	U1910311	BSc	
12.	Nazik Mohammed Alamiry	U1810174	BSc	
13.	Farid Mohammed Farid Bahada		BSc	Screening of KISS1R and KISS1 genes sequence among patients with Congenital hypogonadotropic hypogonadism
14.	Asmaa Usama Elbakri		BSc	
15.	Maab Samer Basheer		BSc	
16.	Alyazyza Ahmed Almazrouei		BSc	
17.	Shiza Saleem		BSc	
18.	Marwa Khamis Almazrouei		BSc	
19.	Razan Hajir		BSc	The effect of microRNA 22-3p transfection in breast cancer MDA 231 cells
20.	Jawaher Yousif		BSc	
21.	Aisha Salem		BSc	
22.	Khadija Essa Alzarooni		BSc	Cellular and Molecular Assessment of the Immunosuppressive Effects of Fexofenadine Hydrochloride on Human in vitro Grown Lymphocytes
23.	Fatma Marwan Almheiri		BSc	
24.	Ghadir Reda Aljasmi		BSc	
25.	Sabira Ayesha Bokhari		BSc	
26.	Meera Alketbi		BSc	Phylogeny Tree of Scorpion in UAE Using Molecular Marker Tools
27.	Nada Jalal Sabbagh		BSc	
28.	Meera Mirza		BSc	
29.	Naseebah Salim Khitreesh		BSc	
30.	Eissa Ahmed Alnufaily		BSc	Genetic Analysis of GBJ2 gene mutation for ARNSHL affected UAE individuals.
31.	Reem Ali Alnaqbi		BSc	Molecular assessment of the immunomodulatory effects of <i>Globularia Arabica</i> leaves aqueous extract.
32.	Hind Mohammed Alhammadi		BSc	
33.	Zulfa Rahmat Shamshuddin,		BSc	
34.	Haneefah Lawal Abubakar		BSc	

35.	Alya Mohamed Alsuwaidi		MSc	The effect of Hydroxychloroquine on the fibrinolytic system
36.	Sakina Eqbal Hussain Tayabally		MSc	Increased strength in the Col-Tgel induces apoptosis in the human dental pulp stem cells: 3D culturing of Human dental pulp stem cells at different strengths of Collagen
37.	Moza Al-Ali		MSc	Transcriptomic Profiling of the Telomerase Transformed Mesenchymal Stromal Cells Derived Adipocytes in Response to Rosiglitazone
38.	Mrs. Asma Anwar Ismail		MSc	The Antiangiogenic Effects of 14 Kilodalton Fragment of Human Growth Hormone and Derived Peptides
Spring 2022/2023				
7.	Asma Eisa Yousef	19103105	BSc	The effect of dental pulp stem cell condition media on the growth of <i>Staphylococcus aureus</i>
8.	Jawaher H. Al Hamadi	19104423	BSc	
9.	Manar Sadeq Mohsen	U19105926	BSc	
10.	Meera Khalfan Saif	U19105821	BSc	
11.	Khadija Ahmed Alnahdi	U19101166	BSc	
12.	Hanan Naeem Rasheed	U17100489	BSc	
13.	Luden Mohamed, Malak, ,	U19105807	BSc	Variation in the Antioxidant and Antimicrobial Activities of Honey Samples Collected from Different Regions at Fujairah, the United Arab Emirates
14.	Mahmoud, Lylya Kerrouche	U18102537	BSc	
15.	Aya Birouti	U19100110	BSc	
16.	Lylya Kerrouche	U19105807	BSc	
17.	Malak Mohamed	U19104256	BSc	
18.	Bashayer Salah, Aya birouti	U19103791	BSc	
19.	Hind Abu Shaireh	U18101929	BSc	
20.	Sara Naif Bahbouh	U19105348	BSc	The Effect of Plant Extracts on MDA-MB-231 Breast Cancer Cells
21.	Tasnim Abdullatif	U19104271	BSc	
22.	Tuleen Osama Alkilani	U19100797	BSc	
23.	Salama Yousif Alhosani	U19100705	BSc	
24.	Raghad Taher Alblooshi	U19101939	BSc	
25.	Fatima Zahra Alkafri	U19103313	BSc	Testing the Ability of Two Naked siRNAs in Downregulating the Expression of SLC26A4 Implicated in the Progression of Asthma
26.	Iman Wehbe	U19105142	BSc	
27.	Maryam Ali Alnuaimi	U19101571	BSc	
28.	Khawla Abdalla Alhammadi	U19104748	BSc	
29.	Shamma Jamal Almarri	U19102217	BSc	
30.	Aisha Jasim Alhosani	U18100659	BSc	

31.	Alya Obaid	U19100307	BSc	Investigation of wound healing effects of Oleocanthal, Hydroxytyrosol, and Curcumin on A549 lung cancer cell lines.
32.	Budour Abdalla	U19101789	BSc	
33.	Nouf Saeed	U19100129	BSc	
34.	Amna Hassan	U19100767	BSc	
35.	Wadha Omar	U19100417	BSc	
36.	Marwa Khalid	U19101268	BSc	
37.	Mariam Ahmed	U19104354	BSc	Molecular and Phylogenetic study of some scorpions in Sharjah
38.	Tahia Faisal Ali	U18106035	BSc	
39.	Ghadeer adnan Kamil	U16103660	BSc	
40.	Wegdan Ali	U19105070	BSc	
41.	Norah Mohammed Abobakr Balfaqih	U19101356	BSc	
42.	Mahra Mahmood Muhammed Abbas Alblooshi	U19100289	BSc	
43.	Hamda Abdullah Alblooshi	U17102297	BSc	Connexin 26 Gene Mutations in Non-Syndromic Hearing Loss Among UAE Patients
44.	Heba Majdi Abu Qaren	U19101514	BSc	
45.	Hind Ahmed Almansoori	U18102899	BSc	
46.	Sara Morad	U19104336	BSc	
47.	Hamda Mahmood Alhamdani	U19102790	BSc	
48.	Maryam Ahmad AlHawai	U19105660	BSc	Anticancer Effects of Trnaslational inhibitor Silvestrol on MDA-MB-231 cells
49.	Odilbek Tokhirov	U18200259	BSc	
50.	Shaikha jassim almehza	U16103912	BSc	
51.	Salam Mohammad Feras		BSc	
52.	Reem Ahmed AlMaazmi		MSc	Evaluation of quality of frozen-thawed spermatozoa of the Arabian camel " <i>Camelus dromedarius</i> "
53.	Baraah Tariq Shaker		MSc	The 14-Kilodalton Human Growth Hormone Fragment a Potent Inhibitor of Angiogenesis and Tumor Metastasis
54.	Maab Babiker Mansour Hamid		MSc	Molecular Genetics of Monogenic Diabetes
55.	Shahad Ghazi Eisa Al Nuaimi		MSc	Optimal Production Conditions of an Active-Inhibitory Compound(s) Producing <i>Streptomyces</i> Strain CSK1 Against <i>Staphylococcus aureus</i>
56.	Maria Asaad		MSc	Identification of Novel Mutations in Two Yemeni Families with Hereditary Hearing Loss

Internship Statistics

	Summer	Fall	Spring	Total
# Training Sites	25	1	2	28

# Trainee Students (National in UAE)	87	1	2	90
# Trainee Students (Training abroad)	0	0	0	0

Internship Sites

No.	Site Name	Place	# Male Students	# Female Students	Total
1	Dubai forensic Lab	DXB	0	8	8
2	G42 -MASDAR	AD	1	4	5
3	Research Institute of Medical & Health Sciences University of Sharjah	UOS	0	3	3
4	Sharjah police forensic lab	SHJ	0	10	10
5	Fujairah Municipality	FUJ	0	2	2
6	University hospital	SHJ	0	8	8
7	Rak hospital	RAK	0	1	1
8	Mohammed Bin Rashid University of Medicine and Health Sciences	DXB	0	2	2
9	Dubai Equine Hospital	DXB	0	2	2
10	Ajman Municipality	Ajman	0	4	4
11	Agiomix	DXB	0	2	2
12	ICBA	DXB	0	4	4
13	Al Sharq Hospital	FUJ	0	1	1
14	Sharjah municipality	SHJ	1	6	7
15	Abu Dhabi police / forensic lab	AD	1	1	2
16	Sharjah Equine Hospital	SHJ	0	1	1
17	Thalassemia center/ Latifa Hospital	DXB	0	6	6
18	Erada center for treatment and rehab	DXB	0	1	1
19	Salmaniya Medical Complex	Bahrain	0	1	1
20	Ajman police - crime scene	Ajman	0	1	1
21	King Fahad Specialist Hospital	KSA	0	1	1
22	Khor Kalba Mangrove	Khor Kalba	0	1	1
23	Abu Dhabi Agriculture and Food Safety Authority	AD	0	1	1
24	Fujairah forensic lab	FUJ	0	1	1
25	Al Ain Zoo	Al Ain	0	1	1

Student Advising

No.	Faculty Name	Rank*	# Students
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			Fall	Spring
12.	Kareem Mosa	Associate Professor	48	41
13.	Ismail Saadoun	Professor	66	66
14.	Elsiddig Elsheikh	Professor	43	43
15.	Ali El-Keblawy	Professor	76	37
16.	Abdelaziz Tlili	Associate professor	49	41
17.	Hassen Hadj Kacem	Associate Professor	88	89
18.	Khalid Bajou	Associate professor	86	85
19.	Abdullah Al Mutery	Assistant Professor	53	53
Total			509	455
			Total	964

*Rank: Full Professor, Associate Professor, Assistant Professor, Lecturer

Enrolled Students

Fall 2022/2023		F	M	Total
		Major	Major	
Grad	Chemistry			
	Applied Biology	30	5	35
	Physics			
	Total			
UG	Applied Physics			
	Applied Biology	430	43	473
	Chemistry			
	Mathematics			
	College Total			

Spring 2022/2023		F	M	Total

		Major	Major	
Grad	Chemistry			
	Applied Biology	64	2	66
	Physics			
	Total			
UG	Applied Physics			
	Applied Biology	698	82	780
	Chemistry			
	Mathematics			
	College Total			

DEPARTMENT OF APPLIED PHYSICS AND ASTRONOMY

Department Committees

Committee	Goals and Tasks	Members
Schedule and exams	<ol style="list-style-type: none"> 1. Prepare the schedule 2. Prepare the exams' logistics 3. Supervise the preparation, revision and printing of exams 	Mounir Chairman Hachemi Benaoum Hamdan Hamdan Omar Adwan Hussain Alawadhi
Accreditation and Academic Plans	<ol style="list-style-type: none"> 1. Review academic plans, and coordinates upgrades and supervises the introduction of new plans. 2. Create a sub-committee to work on the MSc programs 	Gehad Sadiek Chairman Rachik Soualah Hichem Eleuch Hamdan Hamdan Antonios Manousakis Mounir Kaidi
Employment and Promotion	<ol style="list-style-type: none"> 1. Assess the department's need in terms of faculty and staff. 2. Draw plans for recruitment 3. Review applicant documents and conducts interviews before making recommendations to the administration for final decisions. 	Ad Hoc committee
Conferences and Symposia	<ol style="list-style-type: none"> 9. Plan and executes the department's regular seminar. 10. Plan the department activities concerning seminars and symposia. 11. Make contacts with national and international parties concerning 	Rachik Soualah Chairman Omar Adwan Hafsa Khurshid Gehad Sadiek Nezar Hammouri

	<p>department's seminar activities, and participation.</p> <p>12. Handle hospitality requirements for hosting invited speakers and other academic guests</p>	
Research Committee	<ol style="list-style-type: none"> 1. Coordinate the department's research activities including drawing up plans for future research direction. 2. Review research proposals 3. Coordinate undergraduate research activities. 4. Help facilitate interactions between faculty and the university research centre, and the office of the vice chancellor for scientific research. 	<p>Daniil Moraitis Chairman Hichem Eleuch Amine Ahriche Oleg Olendski Bashir Suleiman Antonios Manousakis Gehad Sadiak</p>
Library, Computing Resources, and Educational Technology Tools	<ol style="list-style-type: none"> 1. Keep the physics core collection updated. 2. Coordinates book purchases 3. Work with FAS library committee on library related issues. 4. Review department's needs in terms of computing and other educational equipment and helps in keeping those in order. 5. Keep the department informed of advances in educational technology changes. 	<p>Yassir Abdu Chairman Hachemi Benaoum Kais Daoudi Oleg Olendski Nezar Hammouri Hussain Alawadhi</p>
Committee for "Teaching Laboratories"	<ol style="list-style-type: none"> 1. Review the status of laboratory equipment and make sure that they are upgraded properly and ready for use each semester. 2. Draw equipment lists and makes purchases, 3. Update and upgrades laboratory manuals. 	<p>Mounir Chairman AbdulRaheem Khudada Bassam Rashed Nawal Nayfeh Moh'd Hamza Tahani AL Sarayreh Omar Adwan Saja Abdulhadi</p>
Community Outreach	<ol style="list-style-type: none"> 1. Manage and regulate visits to local High Schools, and prepare material needed for hosting High School Students. 2. Coordinate the Annual Physics Festival. 	<p>Hafsa Khurshid Chairman Abdul Raheem Khudada Moh'd Hamza Muhammad Azeem</p>

	<p>3. Facilitate the community service load among staff.</p> <p>4. Administer Scientific events such as the Science Fair and the Physics Olympiad.</p>	
Website Committee	<p>6. Keep the department's website updated and free of errors.</p> <p>7. Help members update they individual webs pages</p> <p>8. Work with the University computer centre on issues related to the website.</p>	<p>Kais Daoudi Chairman Bashir Suleiman Mohamed Abdel-Fattah Antonios Manousakis Bento Joseph Mariam Alnaqbi</p>
Social Committee	<p>1. Coordinate activities of the Students' Scientific Society with the dean and various university departments.</p> <p>2. Organize the departments social activities</p>	<p>Bassam Rashed Chairman Nawal Nayfeh Tahani AL Sarayreh Saja Abdulhadi Khadija Al hosani Taghreed Abdalla Mariam Alnaqbi</p>
Department representative in college council	Represent department members at the college council meetings	Mohamed I. Abdel-Fattah
Council secretary	Record department meeting minutes and circulate them for comments before final approval.	Mohamed Hamza

Faculty and Professional Staff

1. Faculty and Professional Staff

List of Full-Time Faculty Members:

N	ID	Name	Gender	Rank	Specialization	Date Joined
1	10565	Hamid M. AL Naimiy	M	Professor	Astronomy and Space Sciences	1-Sep-06
2	101119	Mounir Kaidi (chairman)	M	Professor	Materials Science Physics	21-Jan-14
3	10052	Bashir M. Suleiman	M	Professor	Material Physics	28-Feb-98
4	101764	Mashhoor Alwardat	M	Professor	Interferometry and spectrophotometry of	9/1/2019

					binary and multiple stellar systems	
5	101722	Nouar Tabet	M	Professor	Solar cells	1/13/2019
6	101407	Ilias Fernini	M	Professor	Astrophysics	7-Feb-16
7	101506	Oleg Olendski	M	Professor	Computational Physics	1-Sep-16
8	101886	Amine Ehrich	M	Professor	High Energy Physics	1-Sept-20
9	101823	Hichem El Euch	M	Professor	Quantum Physics	30-Aug-20
10	101956	Nezar Atalla Hammouri	M	Professor	GIS and Remote Sensing	1-Sep-21
11	10230	Hussain Alawadhi	M	Associ. Prof.	Condensed Matter Physics	1-Sep-00
12	10480	Hussein EL Mehdi	M	Associ. Prof.	Bio-Medical Physics	12-Feb-05
13	101102	Hachemi Benaoum	M	Associ. Prof.	Particle & Nuclear Physics	19-Jan-14
14	101172	Kais Daoudi	M	Associ. Prof.	Materials Science Physics	1-Sep-14
15	101236	Gehad Kandeel Sadiek	M	Associ. Prof.	Theoretical Physics	1-Sep-14
16	101508	Yassir Ahmed Abdu	M	Associ. Prof.	Material Spectroscopy-Meteorites	1-Sep-16
17	101746	Daniil Moraitis	M	Associ. Prof.	Geochemistry	9/1/2019
18	101946	Mohamed I. Abdelfattah Farag	M	Associ. Prof.	Petroleum Geosciences	1-Sep-21
19	101435	Rachik Soualah	M	Assist Professor	Particle Physics	31-Jan-16
20	101507	Muhammad Azeem	M	Assist Professor	Material Physics	1-Sep-16
21	101617	Hafsa Khurshid	F	Assist Professor	Nano-Physics	8/20/2017
22	101671	Hamdan Ali Hamdan	M	Assist Professor	Geophysics	2-Sep-18
23	101805	Antonios Manousakis	M	Assistant. Prof.	Observational and Computational Astrophysics	1-Sep-20
24	10039	Bassam Rashed Khader	M	Lecturer	Radiation Physics	11-Nov-97
25	10055	Omar Adwan	M	Lecturer	Nuclear Physics	4-Apr-98
26	10214	Mohammed A. Mansour	M	Lecturer	Electronics	1-Sep-98
27	10523	Nawal Mohamad Nayfeh	F	Lecturer	Condensed Matter Physics	1-Sep-05
28	101108	Saja I.M. AbdulHadi	F	Lecturer	Computational Physics	1-Sep-13
29	101109	Tahani I. Alsarayreh	F	Lecturer	Oceanography	1-Sep-13
30	101505	Abdulraheem Khudada	M	Lecturer	Radiation Physics	1-Sep-16
31	101982	Awni Moh'd Kasawneh	M	Visiting Assistant Prof.	Astrophysics and Radioastronomy	1- Feb 2022
32	101990	Asma Ali Alnaqbi	F	Lecturer	Petroleum Geosciences / Sedimentology	1-Sep-2022
33	102082	Mejd Majid Mohamed Alsari Almheiri	F	Assistant Professor	Solar Cells	1-March-23

List of Part-Time Faculty Members:

Teaching Load

Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
			Contact Hours**	Credit Hours**	Contact Hours	Credit Hours
Bassam Rashed	Lecturer	Full Time	24	12	24	12
Yassir Abdu	Associate Prof.	Full Time	15	15	9	9

Bashir Suleiman	Prof.	Full Time	12	12	12	12
Antonios Manousakis	Assistant Prof.	Full Time	12	12	13	12
Hichem Eleuch	Prof	Full Time	10	10	9	9
Daniil Moraitis	Associate Professor	Full Time	9			
Nawal Nayfeh	Lecturer	Full time	24	12	24	12
Hamdan Hamdan	Assistant professor	Full time	12	12	12	12
Moh'd Hamza	Lecturer	Full time	27	15	24	12
Mohamed I. Abdel-Fattah	Associate Prof.	Full Time	10	10	10	10
Omar Adwan	Lecturer	Full time	24	15	24	15
Mounir Kaidi	Prof.	Full time	10	10.33	3	3
Kais Daoudi	Associate Prof.	Full time	9	9	12	12.80
Saja Abdul-Hadi	Lecturer	Full time	24	12	24	12
Mashhour	Prof.	Full time	7	8.5	7	7
Tahani Sarayreh	Lecturer	Full time	24	12	24	12
Rachik Soualah	Assistant Prof.	Full time	6	6	9	9
Asma Alnaqbi	Lecturer	Full time		8.5		10.5
AbdulRaheem Khudada Mohammed	Lecture	Full time	30	15	24	12
Mejd Almheiri	Assistant Prof.	Full time	NA	NA	6	3
Gehad Sadiak	Associate Professor	Full time	12	12	12	12

*Rank: Professor, Associate Professor, Assistant Professor, Lecturer

** For most courses: contact hours = credit hours.

For courses of type LAB or LEB (lecture and lab):

Credit hours = course credit hours published in university catalogue,

Contact hours = actual time the instructor spends in contact with students.

Example: Physics Lab, credit hours = 1, contact hours = 3.

List of Professional Staff

ID	Name	Department	Job Title
201228	Khadija Ismaeil Alhosani	Physics	Senior Lab Officer- Team leader
201046	Taghrid Abdalla	Physics	Senior Lab Officer
201351	Sanoor Mannath	Physics	Senior Lab Officer

202194	Bento Joseph	Physics	Senior Lab Officer
202500	Mariam Al-Naqbi	Physics	Lab Officer
202736	Abd Elmahmoud Elsamani	Physics	Lab Officer
202945	Shaikha Juma Albedwawi	Physics	Lab Officer
202288	Fatima Mohamed Alyassi	Physics	Administrative assistant

Graduated Students

#	Name	ID#	Degree	Senior Project Title
Fall 2022/2023				
1.	Fatima Mohammed Hashil AlKhateri	U20104274	MSc in Astronomy and Space Sciences	Spectral Classification of selected X-ray sources in the Small Magellanic Cloud (SMC)
2.	Sara Chaar		BSc in applied physics	Low-Frequency Solar Radio Emission
3.				
4.				
5.				
6.				
7.				
Spring 2022/2023				
57.	Mohammed Aminu		BSC in applied physics	Measurements of radon concentration in drinking water
58.	Noora Ali Mohammed		BSC in applied physics	Ergodicity breakdown in 1D long-range interacting spin-1/2 XY Chain with Quench Dynamics

59.	Firoz Chogle		BSC in applied physics	Quantum information measures of Dirichlet waveguide with Neumann window(s)
60.	Hassan Basheer Hadi Haboub		BSC in applied physics	Physical and Geometrical Parameters of Binaryor Multiple Star System
61.	Rashid Mohammad Hamad Khamis Almuhairi		BSC in applied physics	Soil Radon Concentration Measurements in the United Arab Emirates
62.	Ganna Yehia Abdelgawad Abdelmoneim		BSC in applied physics	Development of highly sensitive users-based biosensors using bimetallic gold-silver nanoparticle arrays
63.	Reem Belal Asad Irshaid		BSC in applied physics	Measuring the effective dose of CT scan on pediatric patients using mobile MOSFETS
64.	Abdelrahman I. M. Abu Siam		BSC in applied physics	Emergent Dark Energy Model and its Cosmological Constraints
65.	Lin Rami Sadalddin Benchi		BSC in applied physics	Neutrinos from Type-II Supernovae
66.	Fatimaalzhra Nadir		BSC in PGRS	Application of Well Logging for Total Organic Carbon (TOC) Prediction
67.	Hareem		BSC in PGRS	
68.	Mohammad Shwakat Odeh	U20106093	M.Sc in Astronomy and Space Sciences	Meteor Shower Identification for Observed Meteoroids in UAE
69.	Ganna Abdelmoneim	U19103004	BSc in Applied Physics	Development of Highly Sensitive SERS-Based Sensor using Bimetallic Gold-Silver Nanoparticle Arrays

Internship Statistics

	Summer	Fall	Spring	Total
# Training Sites	4			4

# Trainee Students (National in UAE)	4			4
# Trainee Students (Training abroad)	1 (CERN Student)			

Internship Sites

No.	Site Name	Place	# Male Students	# Female Students	Total
1	ACES	Abu Dhabi		1	1
2	Dragon Oil	Dubai		2	2
3	SAASST	Sharjah		1	1
4	CERN	Geneva		1	1
5					
6					
7					

Student Advising

No.	Faculty Name	Rank*	# Students	
			Fall	Spring
31.	Daniil Moraitis	Associate professor	7	2
32.	Antonios Manousakis	Assistant Prof.	5	4
33.	Hamdan Hamdan	Assistant Prof.	12	12
34.	Mohamed I. Abdel-Fattah	Associate prof.	8	8
35.	Hichem Eleuch	Prof.	5	5
36.	Yassir Abdu	Associate Prof.	5	5
37.	Mashhoor	Prof.	13	12
38.	Rachik Soualah	Assistant Prof.	6	4
39.	Kais Daoudi	Associate Prof.	5	6

40.	Amine Ahriche	Prof.	5	5
41.	Bashir Suleiman	Prof.	5	5
42.	Gehad Sadiq	Associate Professor	5	5
43.	Muhammad Azeem	Assistant Prof.	4	4
44.	Hachemi Benaoum	Associate Prof.	6	6
45.	Hafsa Khurshid	Assistant Prof.	6	6
46.	Hussain Alawadhi	Associate Prof.	4	4
47.	Ilias Fernini	Prof.	2	2
48.	Oleg Olendski	Prof.	5	5
49.	Mounir Kaidi	Prof.	6	6
50.	Nezar Hammouri	Prof.	12	12
Total			126	118
			Total	244

o Public Disclosure and Integrity/

Agreements and Memorandum of Understanding

Agreement Type*	Singed By**	Signed With	Scope***	Description
MoU	The Chancellor	UoS-CERN/ATLAS	International	UoS is a an active member in addition to the 180 members in the ATLAS collaboration. The UAE become the 41 country member.
MoU	The Chancellor	UoS-ICTP	International	UoS has strong links with the ICTP and is actually building a new program that will lead to be organise conferences and wordkshop in the region.
MoU	The Chancellor	UoS-UAEU-NYU AD	National	This is the first National MoU between the 3 univerties that yields to the creation of the UAE cluster composed of

				strong HEP scientists in the region.
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* Agreement Type: Memorandum of Understanding, Research Agreement, Library Agreement, Training Agreement ...etc.

** Signed By: Department Name

*** Scope: National (Emirate Name), International (Country Name)

1. The Education Program

Curriculum Development

No.	Course/Program	Development*	Description
BSc courses			
1.	Modern Physics Lab Bassam, Sanoor Mannath, Bento Joseph	Adding New Experiments	Adding Zeeman effect /9 New apparatus)
2.	Physics 3 Lab Bassam, Sanoor Mannath, Bento Joseph	Adding New Experiments	Adding Michelson interferometer
3.	Update course syllabus Bassam,	New template for accreditation	New template for accreditation purposes and assessment statistics
4.	Modern Physics Lab Bassam	Adding new projects as part of the course	Adding research projects to the course modern physics lab
5.	Update Physics 2 lab course syllabus Nawal	New template for accreditation	New template for accreditation purposes and assessment statistic
6.	Electronics for Experimental Physics I (1430333) (Hamza) https://drive.google.com/file/d/1PHdzCxJnlzHQ7DPOSodTKtOn6NSnczOH/view?usp=sharing	Course material development and slides	9 Chapters were prepared and covered in this course, where a simulation part has been added at the end of each chapter as an additional exercise
7.	Remedial Physics (1430106) (Hamza) https://drive.google.com/file/d/1msglMFgyXJeRct6LVm9aSDW7J5vIAuy7/view?usp=sharing	Course material development and slides	10 Chapters were prepared and covered during Spring (2022-2023) semester.

8.	Electronics for Experimental Physics I Lab (Hamza) https://drive.google.com/file/d/1QF_YjdX3slJeiZdb09P_rOz94U2Qmj0h/view?usp=sharing	New experiments	Adding a new experiment (The 555 Timer and its Applications) and updating the manual keeping the simulation part as a pre-lab assignment for students to fit all teaching methods.
9.	Update the course syllabus for Electronics and Physics 1 lab (Hamza)	New template for accreditation	New template for accreditation purposes and assessment report
10.	Update the course syllabus for Senior Project and Physics for HS, Physics of Energy Resources (Bashir Suleiman)	New template for accreditation	New template for accreditation purposes and assessment report
11.	Update the course syllabus for Astronomy and Space Sciences Omar Adwan	Adding projects to the course	Adding 2 projects to the course as part of the syllabus
12	Update the course syllabus for Astronomy and Space Sciences Omar Adwan	New template for accreditation	New template for accreditation purposes and assessment statistic
13	Update the course syllabus for Physics for Medical Sciences Lab Omar Adwan	New template for accreditation	New template for accreditation purposes and assessment statistic
13	Update the course syllabus for Physics for Medical Sciences Lab Saja AbdulHadi	New template for accreditation	New template for accreditation purposes and assessment statistic
14	Computational Physics course (Rachik Soualah)	Computing cluster	Develop a new way to apply computational skills using a computing cluster such as the SAQR cluster rather than a local PC or Laptop.

MSc courses

6-	Data Analysis and AstroStatistics	New course	Offered in Spring 2022/2023 semester, covering topics of Astrostatistics and Machine Learning application in Astronomy and Astrophysics
7-			
8-			
9-			
10-			
11-			
12-			

PhD courses

1.	NA		

*Development:

- 1- Program Update: changes in the structure of an offered program
- 2- Course Update: change in course name, pre-requisites, credit hours, ..etc.
- 3- New Course
- 4- Content Development
- 5- Others (specify)

Teaching & Learning

Methods for teaching and learning (new methods and enhancements on current methods):

[Examples: Team-based learning, Problem based learning, group studies, case studies, projects, ...etc]

These will reflect what is actually done in classrooms and documented in the course files.

Research-based teaching methodology is applied to all of the CD Graduate Courses Case

Using Hybrid teaching model

Interactive physics lab Simulations

Using Wiley Plus for assignments

Adding research projects to the course modern physics lab

Using Blackboard Collaborate to deliver and receive all experiments and lab reports to promote a sustainable environment. (Hamza)

Designing the electronics lab manual to fit all teaching methods, keeping the simulation part at the beginning of each experiment as a pre-lab assignment for students. (Hamza)

https://drive.google.com/file/d/1UKpBiggj-7c9NZTgFxpWEqf53R_n5bg/view?usp=sharing

Experimental projects in Electronics Lab. (1430333) have been added as new assessment tools to evaluate the student's achievement. (Hamza)

https://drive.google.com/file/d/1deGzCML8sW0kNyQje0wOREsBhMphc_Bg/view?usp=sharing

9 chapters in Electronics (1430-333) were prepared during Fall (2022-2023) semester, where a simulation part has been added at the end of each chapter as an additional assignment to enhance the understanding of theoretical and practical parts. (Hamza)

- Use the Blackboard for delivering the material to students, and receive the lab reports, do the quizzes, show grades, this practice diminishes paper consumption and fostering environmental conservation. (Tahani), (Nawal)

Faculty Analysis

Faculty Development

No.	Development Event*	Development Area**	Description
1.	Blackboard Ultra Summer Camp – Academic Computing Section	IT	<ul style="list-style-type: none">o Module 1- Getting Started with blackboard ULTRAo Module 2- Creating Course Contento Module 3- Creating Assessment in ULTRAo Module 4- Grading and Managing Gradebooko Module 5- Improve Student Engagement in ULTRAo Module 6- Overview of Collaborate ULTRAo Module 7- Blackboard Best Practice ULRA Course

2.	I attend and get certificates due to attending many workshops held by The Institute of Leadership in Higher Education at UoS	Institute of Leadership in Higher Education	<ul style="list-style-type: none"> • How Does Learning Work Best Using Emotional Intelligence. • Rethinking Examinations in Higher Education • Moving from Teacher-Centered to Student-Centered Learning • Empowering Education in Sciences with AI • The Future of Education with AI Chatbots: Challenges, Opportunities and Implications • Beyond Traditional Testing: Exploring Alternative Assessments in the Age of Open AI
3.	➤ I completed different training on Safety offered online by the central labs at UoS like:	Safety- Central Labs	<ul style="list-style-type: none"> • Central Lab Safety Orientation • Basic First Aid • Office Safety • Radiation Protection Training
4.	➤ I attended the workshop High Performance Computing (HPC) : Technologies and Applications	Workshop	HPC

5.	EmSAT Exam	Exam Preparation and Coordination	Prepare Exam and coordinate for all exams
6.	I have attended two workshops in 3D geological modelling	Workshop https://www.visualkarsys.com/	Software Visual karsys Organizer: Swiss Institute of Speleology and Karst Studies
7.	Best practices to keep always ready for accreditation	UOS	By Prof. Adel Khelif Abu Dhabi University (Bashir Suleiman)
8.	Workshop	Teaching & Learning	Introduction to Blackboard Ultra August 28 th , 2022 (Hamza)
9.	Workshop	Teaching & Learning	Introduction to Blackboard Ultra Course & Bb Collaborate August 30 th , 2022 (Hamza)
10.	Workshop	Teaching & Learning	Achieve-Demo walkthrough Feb 26 th , 2023 (Hamza)
11.	Workshop	Teaching & Learning	Effective Instructional Designing for Employability September 21 st , 2022 (Hamza)
12.	Training Session	Teaching & Learning	Studiosity tool Feb 22 nd , 2023 (Hamza)
13.	Seminar	Teaching & Learning	Photo-counting CT-a new way to see x-rays in color Dec 5 th , 2022 (Hamza)

14.	Workshop	Assessment	Taskstream workshop in managing academic assessment and accreditation. Dec 8 th , 2022 (Hamza)
15.	Workshop	Teaching & Learning	Utilizing AI Chatbots in Teaching and Learning Dec. 2022 (Hamza)
16.	Talk	Teaching & Learning	The Art of Making Scientists in the Era of AI. Feb. 27 th , 2023 (Hamza)
17.	Workshop	Assessment	The powerful tool for managing academic assessment and accreditation. March 2 nd , 2023 (Hamza)
18.	Workshop	Teaching & Learning	Masterclass: Hands on Particle Physics. March 14 th , 2023 (Hamza)
19.	Workshop	Teaching & Learning	Lab safety training. March 13 th , 2023 (Hamza)
20.	Workshop	Program Assessment	Honoring the Highly Achieved Alumni of the COS. March 21 st , 2023 (Hamza)
21.	Workshop	Teaching & Learning	Leading Digital Transformation for Higher Education Confirmation. March 21 st , 2023 (Hamza)
22.	Workshop	Teaching & Assessment	Program Evaluation and Continuous Improvement. April 6 th , 2023 (Hamza)

23.	Training Program	Assessment	Exams rules and regulations. May 1 st , 2023 (Hamza)
24.	Workshop	Assessment and Strategy	College Strategy 2024-2030 workshop March 18 th , 2023 (Hamza)
25.	Astronomy Event	Watching the solar eclipse at SAASST	Solar Eclipse 25 10 2022 (Omar Adwan)
26.	18 th research café talk	Research	Securing external grant capture and impact in non STEM areas (Mounir)
27.	VCRG seminars	Research	Pre-award: research funding opportunities-Grants and Guidelines (Mounir)
28.	Library workshop	Publication	An Introduction to IOP Publishing (Mounir)
29.	Workshop registration department	Students' affairs	Undergraduate Bylaws and Registration Policies (Mounir, Mejd Almheiri)
30.	Workshop Institute of Leadership in Higher Education	assessment	Beyond Traditional Testing: Exploring Alternative Assessments in the Age of AI (Mounir)
31.	Workshop Institute of Leadership in Higher Education	Head of departments workshop	Capacity Building Workshop for Department Chairs (Mounir)
32.	Workshop Institute of Leadership in Higher Education	AI	The Future of Education with AI Chatbots: Challenges, Opportunities and Implications (Mounir)

33	Workshop Institute of Leadership in Higher Education	AI	Utilizing AI Chatbots in Teaching & Learning (Mounir)
34	The Emirati Society of GIS and remote sensing	Research	Geospatial Analytics Platform - Space Data Center (Mounir)
35	VCRG seminars	Research	Protecting your intellectual property and generating revenues (Mounir)
36	VCIEA workshop	Academic assessment	Taskstream (Mounir)
37	Workshop (Omar Adwan)	High Performance Computing Workshop	23-5-2022 (Omar Adwan)
38	Training Course (Omar Adwan)	Blackboard ULTRA	I was attending the Blackboard ULTRA Summer Camp July 2022 for one week (Omar Adwan)
39	Webinar (Omar Adwan)	Multisource Remote Sensing	Multisource Remote Sensing-based Participation Estimation over the UAE on September 7, 2022 organized by Mohammed Bin Rashid Space Centre (Omar Adwan)

40	Training Course (Omar Adwan)	Advanced practices for evaluation in the teaching process ممارسات متقدمة للتقويم في عملية التدريس	ممارسات متقدمة للتقويم في عملية التدريس 5-10-2023 (Omar Adwan)
41	Course Design (Astronomy Slides) (Omar Adwan)	IDEL Design Sprint	Design Online Course (IDEL) Design Sprint for one month in July 2022 eLearning Intensive Training to design Quality Learning Experiences (Omar Adwan)
42	Seminar (Omar Adwan)	Protecting your intellectual property and generating revenues	Protecting your intellectual property and generating revenues on Monday, October 17, 2022 (Omar Adwan)
43	Seminar (Omar Adwan)	Delivering seminar in BB Collaborate Ultra	Delivering Lecture using BB Collaborate Ultra Day 5 28 7 2022 (Omar Adwan)
44	Webinar (Omar Adwan)	The Usage of Cloud Technology in GeoAnalytics	The Usage of Cloud Technology in GeoAnalytics on February 22, 2023 organized by Mohammed Bin Rashid Space Centre (Omar Adwan)
45	Seminar (Omar Adwan)	Macmillan Learning Workshop	Achieve Physics - Macmillan Learning Workshop 26 February 2023 (Omar Adwan)

46	Webinar (Omar Adwan)	The National Space Science and Technology Center	The National Space Science and Technology Center on April 5, 2023 organized by Mohammed Bin Rashid Space Centre (Omar Adwan)
47	Training (Omar Adwan)	Master Classes	MASTERCLASSES 14 3 2023 (Omar Adwan)
48	Judging (Omar Adwan)	Judging the UoS students projects	Design for Future Higher Education Students Competition – Judges at University of Sharjah on 27.4.2023 (Omar Adwan)
49	Retreat meeting	لقاء مناقشة الرؤية المستقبلية لمحور توظيف الوظائف الأكاديمية في جامعة الشارقة	جلسات عصف ذهني للمواضيع المتعلقة بالكادر الأكاديمي المواطن في جامعة الشارقة (Mejd Almheiri, Hussain Alawadhi)
50	Workshop AbdulRaheem	Delivering seminar in BB Collaborate Ultra	(Blackboard ULTRA Assignments and Test Guide). 4 th of Sep. 2022
51	Seminar	Learning & teaching	(Effective Instructional Designing for Employability)
52	Seminar	Learning & teaching	كيف يمكن ان يكون التعليم افضل من خلال الذكاء العاطفي محاضرة في 2022/9/28
53	Seminar	Learning & teaching	(Rethinking Examinations in Higher Education), 5 th of Oct. 2022 UOS.

54	Workshop	Learning workshop	(Moving Teacher-centered to Student-centered Learning), 13 th of October 2022 UOS.
55	Workshop	Workshop learning & teaching	Workshop for High School students for different high school Obadiah in Department Labs, 16 th of Jan. 2023
56	Seminar	learning & teaching	(Best Practices to keep always ready for accreditation delivered by Pro. Adel Khalifa) UOS on 29 th Jan. 2023
57	Seminar	learning & teaching	The future Education on AL Chabot: challenges, opportunities, and implication on 8 th of Feb. 2023, UOS.
58	Workshop	Exhibition	(Sciences Fair festival) for high schools. on 2 nd of May 2023 UOS.
			Pre-Award: Research Funding Opportunities-Grants and Guidelines 29/09/2022 (Hichem) -Virtual Library Training Session on: How to select the right journal to publish in Scopus? 29/09/2022 (hichem) الدراسات العليا من القبول الى التخرج- الماجستير

			<p>2022/10/05 (Hichem)</p> <p>-18th Research Talk: Securing External Grant Capture and Impact in Non-Steam Areas</p> <p>10/10/2022 (Hichem)</p> <p>ورش العمل عن التعليمات التنفيذية لبرامج الدراسات العليا (دكتوراه) -</p> <p>12/10/2022 (Hichem)</p> <p>-Workshop on Protecting your Intellectual Property 17/10/2022 (Hichem)</p> <p>-Research at UOS: Opportunities, Grants and Expectations 22/11/2022 (Hichem)</p> <p>Pre-Award: Research Funding Opportunities-Grants and Guidelines 29/09/2022 (Hichem)</p> <p>Protecting your intellectual property and generating revenues 17/10/2022 (Hichem)</p> <p>Intellectual propert and patents 22/12/2022 (Hichem)</p> <p>"A preparedness plan for Europe: Addressing food, energy and technological security commissioned by the European Parliament" 25/01/2023 (Hichem)</p> <p>Research Fair Webinar Series 7th 23/01/2023 (Hichem)</p>
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			<p>"Research Fair Webinar Series" 28/11/2022 (Hichem)</p> <p>"Research Fair Webinar Series" 23/11/2022 (Hichem)</p> <p>الدراسات العليا من القبول التخرج (برامج الماجست) (Hichem)15/10/2022</p> <p>The Future of Education with AI Chatbots: Challenges, Opportunities and Implications 8/2/2023 (Hichem)</p> <p>"How to select the right journal to publish in Scopus" 29/09/2022 (Hichem)</p> <p>"How can we prevent or counteract sarcopenia through physical activity in older adults?" 27/09/2022 (Hichem)</p> <p>how to choose a Research line that will have a global impact? 26/01/2023 (Hichem)</p> <p>Studia Humanitatis: The metamorphosis of the humanities in the age of modern techo-science 14/01/2022 (Hichem)</p>
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Awards and Prizes

No.	Prize Name	Awarded To	Awarded By
1.	Best UAE National Faculty Members in Scientific Research	Dr. Hussain Alawadhi	UOS
2.			

3.			
4.			
5.			
6.			

Certificates (please give examples)

No.	Prize Name	Awarded To	Awarded By
1.	Emsat Certificate	Bassam Rashed, Nawal Nayfeh, Omar Adwan, Saja Abdul-Hadi, Antonios Manousakis, Tahani Sarayrh, AbdulRaheem Khu.	Dean of Academic Support Services
2.	SICPAM Conference	Bassam Rashed, Nawal Nayfeh, Omar Adwan , Tahani Sarayrh	Dean of College of Sciences
3.	International Master Classes on Particle Physics by UoS-HEP group	Bassam Rashed, Nawal Nayfeh, Omar Adwan Saja Abdul-Hadi, Antonios Manousakis, Tahani Sarayrh, AbdulRaheem Khu.	HoD of DAPA and Dean of College of Sciences
4.	3D hydrogely modeling	Daniil Moraitis	Swiss Institute of Speleology and Karst Studies
5.	Student Clubs Activity	M. Hamza	Dean of Student Affairs
6.	COS Strategy 2024-2030	M. Hamza	Dean of College of Sciences
7.	Open Day Coordination	M. Hamza	Dean of College of Sciences
8.	EmSAT Committee	M. Hamza	Dean of College of Sciences
9.	Program Evaluation and Continuous Improvement.	M. Hamza	College of Comp. and Info. Dean
10.			

Efforts to Enhance Academic Advising:

1. Please list some of your techniques here:

College advising day, students peer to peer advising.

5.6 Student Extra-Curricular Activities

No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1-	Meeting with Department Chair	Meeting	Local	Fall and spring	DAPA Students
2-	Wiley Prize	Ceremony	Local	Spring	DAPA Distinguished students
3-	EmsAT Exam	Exam	Local	Fall and Spring	University Students
4-	Master Classes	CERN Activity	International	Spring	School Students
5-	Tracker Workshop	Workshop	Local	Spring	DAPA Students
6-	“Photographic Gallery of the college of Sciences Journey over 25 years”.	Exhibition	Local	Spring	University Community
7-	Two Fieldtrips <ul style="list-style-type: none"> Geological Museum (Buhais) Fujairah 	Fieldtrips	Local	Spring	Students PGRS
8-	<ul style="list-style-type: none"> RAS al-Khaimah Geological Museum 	Fieldtrips	Local	Fall	Students PGRS
9-	Geoscience Career Opportunities Symposium	Symposium	Local	Spring	Students PGRS

10-	Hiking Trip Hatta	Field trip	Local	Spring	Students of Applied Physics Department
11-	Cv building Workshop	Workshop	Local	Fall	Students of Applied Physics Department
12-	Member of the Student Council Formation Committee at the University of Sharjah (Hamza) https://drive.google.com/file/d/1sXk6QMt9NDLK KVRjdV791ndEi_DvyXdG/view?usp=share_link	Clubs & Societies	Local	June and July 2022	UOS Students
13-	Forming and supervising the Student Scientific Society in the DAPA (Hamza), (Nawal) https://drive.google.com/file/d/1nQvehApup9EhS xsiPz1iyQcc3-Y0bxR6/view?usp=sharing	Clubs & Societies	Local	15/9/2022	DAPA Students
14-	Participation in the annual exhibition of student clubs at UoS (Hamza) https://docs.google.com/document/d/1tHYwdbNRVnhAH25Q3eY8p9tM-upxXKtx/edit?usp=share_link&oid=112010672451235750240&rtpof=true&sd=true	Exhibition	Local	7/3/2023	UOS Students
15-	Participation in the Science fair for school students on the Silver Jubilee Celebration of the UOS UoS (Hamza) https://docs.google.com/document/d/1RppaPso m3tszIacDDmIOZco4YrQ_augQ/edit?usp=sharing&oid=112010672451235750240&rtpof=true&sd=true	Exhibition	National	2/5/2023	Public and Students
16-	Training SSS students on how to introduce projects & use demo devices in exhibitions. (Hamza)	Two Workshops	National	6/3/2023 & 1/5/2023	DAPA Students
17-	13 th UOS Open Day Activities (College Coordinator) (Hamza)	promotion	National	2-6/5/2023	School students and their families

18-	EmSAT Examination Committee. (Hamza)	Equivalent exam	National	Dec. 2022	UOS Students
19-	Masterclass: Hands on Particle Physics (Hamza)	Workshops	International	14/3/2023	School students
20-	Supervisor of the student scientific society (Hamza), (Nawal)	Clubs & Societies	Local	1/9/ 2022	DAPA Students
21-	Race toward zero net emission (DAPA Physics Society)	seminars	All students	28/2/2023	All students
22-	WORKSHOP ON CAA ACCREDITATION FILE PREPARATION	Workshops	Academic	8-12-2022	Faculty
23-	THE PHYSICS SOCIETY	Let the Games Begin	EXTRA CURRICULAR ACTIVITIES	13-10-2023	FACULTIES AND STUDENTS
24-	THE PHYSICS SOCIETY	Tracker Video Analysis Workshop	EXTRA CURRICULAR ACTIVITIES	24.11.2022	FACULTIES AND STUDENTS
25-	THE PHYSICS SOCIETY	Artificial Intelligence Workshop with AWS	EXTRA CURRICULAR ACTIVITIES	14.02.2023	FACULTIES AND STUDENTS
26-	THE PHYSICS SOCIETY	Race to Zero	EXTRA CURRICULAR ACTIVITIES	28.02.2023	FACULTIES AND STUDENTS
27-	THE PHYSICS SOCIETY	Physics Society Iftar	EXTRA CURRICULAR ACTIVITIES	13.04.2023	FACULTIES AND STUDENTS

28-	THE PHYSICS SOCIETY	Advising Session	EXTRA CURRICULAR ACTIVITIES	23.03.2023	FACULTIES AND STUDENTS
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* Types: Clubs & Societies, Volunteer, Social & Athletic, Arts & Exhibitions, Contests, Other

** Scope: Local (University Level), National, International

5.7 Student Awards

No.	Competition	Venue	Date	Award
1-	AAPG's Imperial Barrel Award Program (IBA) in Bahrain		18/2/2023	3rd place in the Middle East Region & 1st place in the UAE in the IBA -AAPG Petroleum Geosciences competition in Bahrain
2-				
3-				

Research and Scholarly Activities

Publications

Publication Category	Number of Publications
Published Books	1
Journal Papers	71
Book Chapters	
Conference Papers	19
Technical Reports & Manuals	3
Artistic and Creative Works*	
Total	94

* For College of Fine Arts and Design

List of Publications

No.	Publication Name	Category*
1.	Abdu Y.A., Gismelseed A.M., Attaelmanan A.G., Shaddad M.H. and Hawthorne F.C. (2023) Thermal and shock history of Almahata Sitta meteorite inferred from structure refinement of pyroxene and Mössbauer spectroscopy of Fe-Ni metal. Meteoritics and Planetary Science 58, 737-746. http://dx.doi.org/10.1111/maps.13988	Journal
2.	Abdu Y.A. (2022) Infrared Spectroscopic Evidence of Benzonitrile in Carbonaceous-Chondrite Material from the Kapoeta Meteorite. 85 th Annual Meeting of The Meteoritical Society 2022 (LPI Contrib. No. 2695). Meteoritics and Planetary Science 57, S1.	Conference
3.	Daniel Moraetis , Kosmas Palvopoulos, Charalambos Fassoulas, Andreas Scharf, Frank Mattern, Xuan Yu, Christos Pennos, Kostas Adamopoulos, Stylianos Zacharias, Hamdan Hamdan, Nikolaos Nikolaidis. 2022 . Karst development in different tectonic settings (Middle East, Greece, South China), concept analysis and first findings towards hydrology modeling reconsideration, Vienna-Austria, EGU22-5206	Conference
4	D. Moraetis , C. Fassoulas, F. Alzhra, H. Khan, A. Leontaritis K. Pavlopoulos A. Scharf, M Vaxevanopoulos, K Adamopoulos, M. Digenis C. Pennos, N. Nikolaidis. Preliminary tectonostratigraphy results from the Small Trocharis mountain, north-east Lefka Ori, western Crete. 16th International Congress of the Geological Society of Greece 17-19 October, 2022 - Patras, Greece Bulletin of the Geological Society of Greece, Sp. Publ. 10 Ext. Abs. GSG2022-305	Conference

5	Jisha Kuttiani Ali, Hala Ghaleb, Abdul Fahim Arangadi, Tu Phuong Pham Le, Daniel Moraetis , Kosmas Pavlopoulos, Emad Alhseinat, 2023, Comprehensive assessment of the capacity of sand and sandstone from aquifer vadose zone for the removal of heavy metals and dissolved organics. Environmental Technology & Innovation ,102993, https://doi.org/10.1016/j.eti.2022.102993 .	Journal
6	Mahdi, Adnan Q., Mohamed I. Abdel-Fattah, and Hamdan A. Hamdan . "An integrated geochemical analysis, basin modeling, and palynofacies analysis for characterizing mixed organic-rich carbonate and shale rocks in Mesopotamian Basin, Iraq: Insights for multisource rocks evaluation." <i>Journal of Petroleum Science and Engineering</i> 216 (2022): 110832.	Journal
7	Imam, T. S., Abdel-Fattah, M. I., Tsuji, T., & Hamdan, H. A. (2022). Mapping the geological structures in the Ras El Ush field (Gulf of Suez, Egypt), based on seismic interpretation and 3D modeling techniques. <i>Journal of African Earth Sciences</i> , 193, 104596.	Journal
8	Edigbue, P., Demirci, I., Akca, I., Hamdan, H. A. , Kirmizakis, P., Soupios, P., ... & Al-Shuhail, A. (2022). A Comprehensive Study of Local, Global, and Combined Optimization Methods on Synthetic Seismic Refraction and Direct Current Resistivity Data. <i>Applied Sciences</i> , 12(22), 11589.	Journal
9	Edigbue, P., Demirci, I., Akca, I., Hamdan, H. , Kirmizakis, P., Soupios, P., ... & Al-Shuhail, A. (2022). Application of Combined Local and Global Optimization Algorithms in Joint Interpretation of Direct Current Resistivity and Seismic Refraction Data: A Case Study of Dammam Dome, Eastern Saudi Arabia. <i>Sensors</i> , 22(23), 9337.	Journal
10	Edigbue, P., Akca, I., Demirci, I., Al-Shuhail, A., Hamdan, H. A. , Kirmizakis, P., ... & Soupios, P. (2023). Testing Different Stochastic Methods to Model Direct Current Resistivity and Seismic Refraction Geophysical Data Using a Combined Local and Global Optimization Algorithm. <i>Arabian Journal for Science and Engineering</i> , 1-14.	Journal
11	System of a six-level atom interacting with a quantized field in the existence of time-varying coupling M. Algarni, K. Berrada, S. Abdel-Khalek, and H. Eleuch <i>Results in Physics</i> 45, 106233 (2023)	Journal
12	Entanglement and coherence in a system of two atoms in the presence of Kerr medium and field dissipation K. Berrada, S. Abdel-Khalek, A. Alkaoud, and H. Eleuch <i>Results in Physics</i> 44, 106172 (2023).	Journal
13	Analytical solutions for a new form of the generalized q-deformed Sinh-Gordon equation: $\partial^2 u \partial z \partial \zeta = e \alpha u [\sinh q(u \gamma)]^p - \delta$. K. K. Ali, H. I. Alrebdi, N. A. Alsaif, A-H Abdel-Aty,, and H. Eleuch	Journal
14	Exact Solutions of the Bloch Equations to the Asymmetric Hyperbolic Cosine Pulse with Chirped Frequency S. Grira 1, N. Boutabba and H. Eleuch <i>Mathematics</i> 11, 2159 (2023).	Journal
15	Novel Entropic Dynamics of Donor-Acceptor Quantum Dot System D. A. M. Abo-Kahla, M.H. Raddadi, A.-H. Abdel-Aty, M. Abdel-Aty, and H. Eleuch Accepted in: <i>Results in Physics</i> (2023)	Journal
16	Dynamics of two-qubit quantum nonlocality in a Heisenberg chain model with the intrinsic decoherence A.-B. A. Mohamed, F. M. Aldosari, and H. Eleuch <i>Optical and Quantum Electronics</i> 55, 284(2023)	Journal
17	Dynamics of quantum-memory assisted entropic uncertainty of a two-spin Heisenberg XXX model under the intrinsic decoherence effect A.-B. A. Mohamed, F. M. Aldosari, A. Ur Rahman and H. Eleuch <i>Physica Scripta</i> 98, 065110 (2023).	Journal
18	Two-qubit-Heisenberg local quantum Fisher information dynamics induced by intrinsic decoherence model A.-B. A. Mohamed, F. M. Aldosari, and H. Eleuch <i>Results in Physics</i> 49, 106470 (2023)	Journal

19	Scanning qubit probe of edge states in a topological insulator N. Delnoura, A. Bissonnetteb, H. Eleuch, R. MacKenzie, and M. Hilkea <i>Physics Letters A</i> 466, 128716 (2023).	Journal
20	High-Fidelity Quantum Information Transmission Using a Room-Temperature Nonrefrigerated Lossy Microwave Waveguide M. Qasymeh, and H. Eleuch <i>Scientific Reports</i> 12, 16352 (2022)	Journal
21	5. Optical Tomography Dynamics Induced by Qubit-Resonator Interaction Under Intrinsic Decoherence A.-B. A. Mohamed, and H. Eleuch <i>Scientific Reports</i> 12, 17162 (2022)	Journal
22	Entanglement and Fisher information for a two-atom system interacting with deformed fields in correlated twomode states K. Berrada, S. Abdel-Khalek, E. M. Khalil, and H. Eleuch <i>Chaos, Solitons and Fractals</i> 164, 112621 (2022).	Journal
23	Universal quantum computation with symmetric qubit clusters coupled to an environment Christian Boudreault, H. Eleuch, Michael Hilke, and Richard Mackenzie <i>Physical Review A</i> 106, 062610 (2022).	Journal
24	Two-magnon non-locality and coherence induced by an open microwave cavity: Generation and robustness A.-B. A. Mohamed, and H. Eleuch <i>Annalen der Physics</i> 534, 2200184 (2022).	Journal
25	Two-qubit Fisher information and Jensen-Shannon nonlocality dynamics induced by a coherent cavity under dipole, intensity-dependent, and decoherence couplings A.-B. A. Mohamed, and H. Eleuch <i>Results in Physics</i> 41, 105916 (2022).	Journal
26	New soliton solutions for the conformal time derivative q-deformed physical model K. K. Ali, A-H Abdel-Aty, and H. Eleuch <i>Results in Physics</i> 42, 105993 (2022).	Journal
27	Quantum memory and coherence dynamics of two dipole-coupled qubits interacting with two cavity fields under decoherence effect A.-B. A. Mohamed, A.-H. Abdel-Aty, and H. Eleuch <i>Results in Physics</i> 41, 105924 (2022).	Journal
28	Exploration of new solitons and phase characterization for the extended Gerdjikov-Ivanov equation T. A. Alrebdi, N. Raza, F. Salman, A. H. Abdel-Aty, and H. Eleuch <i>Results in Physics</i> 41, 105961 (2022).	Journal
29	A variety of new explicit analytical soliton solutions of q-Deformed Sinh-Gordon in (2+1) dimensions H. I. Alrebdi, N. Raza, S. Arshed, A. R. Butt, A. H. Abdel-Aty, C. Cesarano, and H. Eleuch <i>Symmetry</i> 14, 242 (2022)	Journal
30	Entanglement and Fisher information for atoms-field system in the presence of negative binomial states Kamal Berrada, Mariam Algarni, Sayed Abdel-Khalek and H. Eleuch <i>Symmetry</i> 24, 181 (2022)	Journal
31	Nonlocality Dynamics Induced by a Lamb–Dicke Nonlinearity in Two dipole-Coupled Trapped Ions under Intrinsic Decoherence A-H Abdel-Aty, A. B. A. Mohamed, and H. Eleuch <i>Fractals</i> 30, 2240045 (2022).	Journal
32	New Numeric Approach of Solving Highly Nonlinear Fractional Partial Differential Equations via Fractional Novel Analytical Method M. Sultana, U. Arshad, A-H Abdel-Aty, Ali Akg`ul, M. Mahmoud, and H. Eleuch <i>Fractal and Fractional</i> 6, 512 (2022)	Journal
33	. Three-level atom–field in the context of time-dependent coupling and power-lower potentials M. Algarni, K. Berrada, S. Abdel-Khalek, and H. Eleuch <i>Results in Physics</i> 43, 106089 (2022).	Journal

34	Quantum memory and coherence dynamics of two qubits interacting with a coherent cavity under intrinsic decoherence A.-B. A. Mohamed, A. Ur Rahman, A.-H. Abdel-Aty, F. S. Al-Duais, and H. Eleuch <i>Optical and Quantum Electronics</i> 54, 783 (2022).	Journal
35	Abdel Fattah, M.I., Hamdan, H.A. , Abd-Allah, Z., Abuzied, S.M., and Hammouri, N. , 2023. Integrated Geoscience Techniques for Shale Reservoir Characterization: An example from Middle Jurassic Khatatba Formation in the Obaiyed field (Western Desert, Egypt). International Conference & Exhibition for Science (ICES2023), 6-8 February 2023, Riyadh, Saudi Arabia.	Conference
36	Shehata, A.A., Sarhan, M.A., Abdel-Fattah, M.I. and Mansour, S., 2023. Geophysical assessment for the oil potentiality of the Abu Roash “G” reservoir in West Beni Suef Basin, Western Desert, Egypt. <i>Journal of African Earth Sciences</i> , p.104845.	Journal
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38	Radwan, A.E., Husinec, A., Benjumea, B., Kassem, A.A., Abd El Aal, A.K., Hakimi, M.H., Thanh, H.V., Abdel-Fattah, M.I. and Shehata, A.A., 2022. Diagenetic overprint on porosity and permeability of a combined conventional-unconventional reservoir: Insights from the Eocene pelagic limestones, Gulf of Suez, Egypt. <i>Marine and Petroleum Geology</i> , 146, p.105967.	Journal
39	Soliman, S.R., Salama, Y.F., El-Sayed, M.I., Abdel-Fattah, M.I. and Abd-Allah, Z.M., 2022. Assessment of Mineralogical and Geochemical Composition of Oligocene/Eocene Black Shale Deposits in Beni Suef Area, Egypt. <i>Advances in Materials Science and Engineering</i> , p.1-12, 2022.	Journal
40	Mahdi, A.Q., Abdel-Fattah, M.I. and Hamdan, H.A. , 2022. An integrated geochemical analysis, basin modeling, and palynofacies analysis for characterizing mixed organic-rich carbonate and shale rocks in Mesopotamian Basin, Iraq: Insights for multisource rocks evaluation. <i>Journal of Petroleum Science and Engineering</i> , 216, p.110832.	Journal
41	Imam, T.S., Abdel-Fattah, M.I. , Tsuji, T. and Hamdan, H.A. , 2022. Mapping the geological structures in the Ras El Ush field (Gulf of Suez, Egypt), based on seismic interpretation and 3D modeling techniques. <i>Journal of African Earth Sciences</i> , 193, p.104596.	Journal
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43	Abdel-Fattah, M.I. , Sen, S., Abuzied, S.M., Abioui, M., Radwan, A.E. and Bensaou, M., 2022. Facies analysis and petrophysical investigation of the Late Miocene Abu Madi sandstones gas reservoirs from offshore Baltim East field (Nile Delta, Egypt). <i>Marine and Petroleum Geology</i> , 137, p.105501.	Journal
44	Abdel-Fattah, M.I. , Mahdi, A.Q., Theyab, M.A., Pigott, J.D., Abd-Allah, Z.M. and Radwan, A.E., 2022. Lithofacies classification and sequence stratigraphic description as a guide for the prediction and distribution of carbonate reservoir quality: A case	Journal

	study of the Upper Cretaceous Khasib Formation (East Baghdad oilfield, central Iraq). Journal of Petroleum Science and Engineering, 209, p.109835.	
45	The Improved X-ray Detector (iXRD) on Sharjah-Sat-1, design principles, tests and ground calibration, Experimental Astronomy (2023) https://ui.adsabs.harvard.edu/link_gateway/2023ExA...tmp...17K/doi:10.1007/s10686-023-09890-z	Journal
46	K Ramachandran, K Daoudi, M Gaidi, J Hammouche, S Chidambaram. Facile, Flexible, Fast, Highly sensitive and Low-cost paper sensor for real time spike protein sensing with SERS, Materials Science and Engineering: B 286 (2022), 115984	Journal
47	S Columbus, J Hammouche, K Ramachandran, K Daoudi, M Gaidi, Assessing the efficiency of photocatalytic removal of alizarin red using copper doped zinc oxide nanostructures by combining SERS optical detection, Journal of Photochemistry and Photobiology A: Chemistry 432, (2022) 114123.	Journal
48	K Ramachandran, K Daoudi, H.H Kacem, S Columbus, H Benaoum and Mounir Gaidi, Rapid and ultra-sensitive detection of pork DNA with surface enhanced Raman spectroscopy for onsite food quality inspection, Sensing and Bio-Sensing Research, 100524 (2022)	Journal
49	K Ramachandran, K Daoudi, S Columbus, A Tlili, M Gaidi, Dual phenomenon of surface plasmon and laser optics induced EM enhancement for rapid DNA detection with semiconductor nanostructures (SiNWs/AgNPs), Journal of Physics: Conference Series 2327 (1), 012018	Journal
50	Soumya Columbus, Abderrahmane Hamd, Krithikadevi Ramachandran, KaisDaoudi, El Hadj Dogheche, Mounir Gaidi, Rapid and ultralow level SERS detection of ethylparaben using silver nanoprisms functionalized sea urchin-like Zinc oxide nanorod arrays for food safety analysis, Sensors and Actuators A: Physical Volume 347, 1 November 2022, 113962	Journal
51	Krithikadevi Ramachandran, Abderrahmane Hamdi, Soumya Columbus, Nour Al Meselmene, Elhadj Dogheche, Kais Daoudi, Mounir Gaidi, Synergism induced sensitive SERS sensing to detect 2,6-Di-t-butyl-p-hydroxytoluene (BHT) with silver nanotriangles sensitized ZnO nanorod arrays for food security applications, Surfaces and Interfaces Volume 35, December 2022, 102407	Journal
52	S. Sassi, K. Trabels, iA. El Jery, M. Abidi, A. Hajjaji, L. Khezami, A. Karrech, M. Gaidi, B.M. Soucase, B. Bessais, Synergistic effect of CuxOy-NPs/TiO2-NTs heterostructure on the photodegradation of amido black staining, Optik Volume 272, February 2023, 170234	Journal
53	Kais Daoudi, Soumya Columbus, Bruno P. Falc~ao, Rui N. Pereira, Suzana B. Peripolli, Krithikadevi Ramachandran, Hassen Hadj Kacem, Anis Allagui, Mounir Gaidi, Label-free DNA detection using silver nanoprism decorated silicon nanoparticles: Effect of silicon nanoparticle size and doping levels Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 290 (2023) 122262	Journal
54	Jose Ferreira de Sousa Junior, Soumya Columbus, Jannat Hammouche, Krithikadevi Ramachandran, Kais Daoudi, Mounir Gaidi, Engineered micro-pyramids functionalized with silver nanoarrays as excellent cost-effective SERS chemosensors for multi-hazardous pollutants detection Applied Surface Science 613 (2023) 156092.	Journal
55	M. Salem, J. Salem, H. Ghannam, I. Massoudi, F. Bourguiba, M. Gaidi, Optical and passivation properties of ZnO:fe on silicon substrates Journal of Materials Science:	Journal

	Materials in Electronics (IF 2.779) Pub Date: 2023-01-31 , DOI:10.1007/s10854-022-09734-0	
56	Rania Ziad, Soumya Columbus, Abdelaziz Elgamouz, Kais Daoudi, Abdel-Nasser Kawde, Krithikadevi Ramachandran, Mounir Gaidi, Multi-functional silver nanoprism-titanium dioxide hybrid nanoarrays for trace-level SERS sensing and photocatalytic removal of hazardous organic pollutants, <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> 297 (2023) 122701	Journal
57	Moez Salem, Hajar Ghannam, Jamel Salem, Sana Ben Moussa, Imen Massoudi and Mounir Gaidi, Effect of Cu-doped ZnO Thin Films on the Electron–Hole Pair Lifetime in Silicon Wafers, <i>Silicon</i> (2023). https://doi.org/10.1007/s12633-023-02459-7	Journal
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59	System of a six-level atom interacting with a quantized field in the existence of time-varying coupling M. Algarni, K. Berrada, S. Abdel-Khalek, and H. Eleuch <i>Results in Physics</i> 45, 106233 (2023).	Journal
60	Entanglement and coherence in a system of two atoms in the presence of Kerr medium and field dissipation K. Berrada, S. Abdel-Khalek, A. Alkaoud, and H. Eleuch <i>Results in Physics</i> 44, 106172 (2023)	Journal
61	Analytical solutions for a new form of the generalized q-deformed Sinh-Gordon equation K. K. Ali, H. I. Alrebdi, N. A. Alsaif, A-H Abdel-Aty., and H. Eleuch <i>Symmetry</i> 15, 470 (2023).	Journal
62	Exact Solutions of the Bloch Equations to the Asymmetric Hyperbolic Cosine Pulse with Chirped Frequency S. Grira 1, N. Boutabba and H. Eleuch <i>Mathematics</i> 11, 2159 (2023)	Journal
63	Dynamics of two-qubit quantum nonlocality in a Heisenberg chain model with the intrinsic decoherence A.-B. A. Mohamed, F. M. Aldosari, and H. Eleuch <i>Optical and Quantum Electronics</i> 55, 284(2023)	Journal
64	Dynamics of quantum-memory assisted entropic uncertainty of a two-spin Heisenberg XXX model under the intrinsic decoherence effect A.-B. A. Mohamed, F. M. Aldosari, A. Ur Rahman and H. Eleuch <i>Physica Scripta</i> 98, 065110 (2023)	Journal
65	Two-qubit-Heisenberg local quantum Fisher information dynamics induced by intrinsic decoherence model A.-B. A. Mohamed, F. M. Aldosari, and H. Eleuch <i>Results in Physics</i> 49, 106470 (2023)	Journal

66	Scanning qubit probe of edge states in a topological insulator N. Delnoura, A. Bissonnetteb, H. Eleuch, R. MacKenzie, and M. Hilkea Physics Letters A 466, 128716 (2023).	journal
67	Prospecting Clumpy wind Accretion in the Supergiant High Mass X-ray Binary IGR J17252-3616 using XMM-Newton, ICES2023 - Riyadh - Saudi Arabi	Conference
68	Spectral analysis of two obscured sgHMXBs with pile-up treatment, ICES2023 - Riyadh - Saudi Arabi	Conference
69	Spectral classification of selected stellar X-ray sources in the Small Magellanic Cloud (SMC), ICES2023 - Riyadh - Saudi Arabi	Conference
70	Preparing 9 chapters in Electronics 1 (1430333), each with an additional simulation part to enhance the student's understanding of the relationship between the theoretical and practical parts. https://drive.google.com/file/d/1PHdzCxJnlzHQ7DPOSodTKtOn6NSnczOH/view?usp=sharing (Hamza)	Manual/ Technical report
71	Update the Electronics manual lab by adding new experiment (The 555 Timer and its Applications) and update the manual keeping the simulation part as a pre-lab assignment for students to fit all teaching methods. https://drive.google.com/file/d/1QF_YjdX3slJeizdb09P_rOz94U2Qmi0h/view?usp=sharing (Hamza)	Manual/ Technical report
72	Preparing the teaching materials for 10 chapters in Remedial Physics (1430106) based on the new textbook, with full solution manual. https://drive.google.com/file/d/1msglMFqyXJeRct6LVm9aSDW7J5vIAuy7/view?usp=sharing (Hamza)	Manual/ Technical report
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81	A. M. Hussein, Mashhoor A. Al-Wardat , Ahmad A. Abushattal , Widyan H. S., Abu-Alrob Enas, Oleg Malkov, and M. A. Barstow, Atmospheric and Fundamental Parameters of Eight Nearby Multiple Stars, Astronomical Journal (AJ) , 2022 , Vol. 163, Issue No. 4 .(https://doi.org/10.3847/1538-3881/ac4fc7) A Q1 Journal, Impact Factor 2021: 6.263	Journal
82	Mashhoor Al-Wardat, <i>Three papers, The International Conference “The Heavens in the Light of the Verses of the Qur'an and Scientific Data”</i> المؤتمر العالمي: السماوات في ضوء آيات القرآن والمعطيات العلمية, Turkish Supreme Council for Religious Affairs, 8-10 May 2023, Ankara, Turkey.	Conference
83	Mashhoor Al-Wardat, Mohammad Musharraf Azmi, Abdallah M. Hussein and Mohammad F. Talafha, <i>Complete Analysis of Subgiant Stellar Systems I: HIP 7580</i> , The International Conference and Exhibition for Science (ICES2023) , 06-08 Feb. 2023, RIYADH, Saudi Arabia.	Conference
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85	Enas M. Abu-Alrob, Ammar Eissa Mohammed Abdulla, Zahra T. Yousef and Mashhoor A. Al-Wardat, <i>Complete Analysis of Subgiant Stellar Systems III: HIP 24902</i> , The International Conference and Exhibition for Science (ICES2023) , 06-08 Feb. 2023, RIYADH, Saudi Arabia.	Conference

86	Mohammad Fadil Talafha, Mashoor Ahmad Al-Wardat, Salem Abdelrahman Shuhail and Hamid M. Al-Naimiy, <i>Transiting Exoplanets from Sharjah Optical Observatory I: the Three Exoplanets HAT-P-9 b, TrES-5 b, and WASP-43 b</i> , The International Conference and Exhibition for Science (ICES2023) , 06-08 Feb. 2023, RIYADH, Saudi Arabia.	Conference
87	<i>Space Explorations: Parallax Measurements from Hipparcos to Gaia</i> , Asia-Pacific Space Cooperation Organization (APSCO) and Arab Union for Astronomy and Space Sciences (AUASS) Meeting , 2-4 November 2022, Jordan	Conference
88	Al-Wardat's Method for Analyzing Binary and Multiple Stellar Systems, FM09-IAUGA 2022 , 2-11 Aug. 2022, Busan, South Korea.	Conference
89	Astrometry From Hipparcos to Gaia: Parallax Discrepancy , FM07-IAUGA 2022 , 2-11 Aug. 2022, Busan, South Korea.	Conference
90	Stellar Astrophysics (in Arabic) by Prof. Mashoor Al-Wardat	Book
91	Mira Fikri, Ali Alhazba, Kosmas Pavlopoulos, Bernhard Pracejus, Ilias Fernini, Antonios Manousakis, Bashir Suleiman, Mohamed Shameer, Muhammed S Irshad, Daniel Moraetis "Thermal Conduction: Computational Model and Engineering Applications" 72nd International Astronautical Congress (IAC), Dubai, UAE, IAC-21-F1.2.3(2022).	Conference
92	Thermal Properties of Backfill Material for Underground Heat Exchange Applications Bashir M. Suleiman ^{*1} , Daniil Moraitis ¹ , Mohamed I. Abdel-Fattah ¹ , Kais Daoudi ¹ , Atta G. Attaelmanan ¹ , Mounir Kaidi ¹ and Marwan Alzaylaie ² .	Conference
93	Bashir M. Suleiman, Heba Y. Youssef, Kais Daoudi, Zaher Aghbari, Azar A. Aman and Mounir Kaidi, "Thermal Conduction: Computational Model and Engineering Applications" Materials Science Forum, Vol 1053, 2022	Journal
94	The American Physical Society March meeting 2023, Las Vegas, Nevada, March 5-10, USA, "Controlling bright and dark periods of entanglement in dissipative interacting field," Gehad Sadiq	Conference

* Category: Book, Journal, Book Chapter, Conference, Technical Report, Manual, Artistic Work ...etc.

Funded Research to be updated

No.	Project Title	Principal Investigator	Grant Source	Amount (AED)
21.	A new karst modeling approach along different tectonic contacts--2023	Daniil Moraitis	Unesco-IGCP	27,000

22.	Fabrication of emerging reusable flexible sensors for rapid, on-site quality control for food contaminants sensing with surface enhanced Raman spectroscopy	Mounir Kaidi	UoS	100,000
23.	Planetary Sciences Research Group	Mashhoor Alwardat	UoS	100,000
24.	Multidisciplinary Study on the Thermal and Mineralogical Properties of Sedimentary and Igneous Rocks in the Vicinities of Sharjah Emirate and within UAE	Bashir Suleiman	UoS	120,000
25.	Quantum entanglement sharing in two interacting two-level atoms coupled to an off-resonance quantized radiation field	Gehad sadiek	UoS	80,000
26.	Thermal robustness and spin relaxation in dissipative spin system with long range interaction	Gehad Sadiek	UoS	80,000
27.	Dynamics of quantum correlations in two interacting Tavis-Cummings atoms (qubits) in a radiation field coupled to dissipative thermal environments (Target project)	Gehad Sadiek, Oleg Olendski, and Hichem El Euch.	UoS	200,000
28.	Investigation of carbon phases in carbonaceous-chondrite inclusions in stony meteorites	Yassir Abdu	UOS	80,000
Total				787,000

Membership in Research Entities

No.	Group Title	Group Members	Start Date	Coordinator
	Nanomaterials for environmental and biological applications	Kais Daoudi, Hussain Alawadhi		Mounir kaidi
	UAE-ATLAS Cluster (UOS+ NYU Ad + UAEU) representative	Rachik Soualah		Rachik Soualah

	The ATLAS Collaboration at CERN, Geneva	UoS – HEP Group:		Rachik Soualah
	ICTP associateship	Rachik Soualah		
	CERN-ATLAS National Contact Physicist (United Arab Emirates)	Rachik Soualah		
	CERN-ATLAS Upgrade Advisory Board Member	Rachik Soualah		
	CERN-ATLAS International Computing Board Member	Rachik Soualah		
	High energy Physics Group	R. Soualah, Amine Ahriche, Antonios Manousakis		Rachik Soualah
	Quantum Simulation, Quantum Information and Quantum Processing Research group	Gehad Sadiq, Oleg Olendski Hichem Eleuch		Hichem Eleuch,

Research Events/Activities

No.	Event Name	Type*	Scope**	Date	Beneficiaries
1.	Sharjah International Conference on Physics of Advanced Materials (SICPM)	Conference	International	25-27 Apr. 2023	
2.					
3.					

*Event Types: Symposium, Seminar, Conference, Workshop, Exhibition, Other

** Scope: Local (University Level), National, International

Research Seminars within the Department of Applied Physics and Astronomy (DAPA)

No.	Speaker	Affiliation	Title	Date
20.	Prof. Shinya Kanemura	Osaka University, Japan	Higgs as a probe of new physics	12/9/2022

21.	<p><i>The students:</i></p> <ol style="list-style-type: none"> 1. Azar Amani 2. Fatimaalzhraa Nadeir 3. Hareem Muhammad Iqbal Khan 4. Khadeeja Safa Bint Ali 5. Suad Bader Johar 	DAPA, UOS	The DAPA students' presentation of their work that has been done during their internship.	26/9/2022
22.	Dr. Masanori Tanaka	Osaka University, Japan	Electroweak phase transition and extensions of the Higgs sector	10/10/2022
23.	Dr. Daniel Moraetis Mrs Fatima Al Ahdal Mrs Hareem Iqbal	DAPA, UOS	Reflections of the students' participation in the workshop organized in Crete-Greece during July 2022 under the auspices of UNESCO, IGCP-715 project.	7/11/2022
24.	Dr. Krithikadevi Ramachandran	CAMR, UOS	Ultrasensitive SERS sensors developed in UOS	28/11/2022
25.	Dr. Aamir Younis Raja	Khalifa University, Abu Dhabi, UAE	Photon-counting CT – a new way to see x-rays in color	5/12/2022
26.	Dr. Asif Eqbal	New York university, Abu Dhabi, UAE	Optical Spin Polarization: An ideal candidate for Molecular Electron Spin Qubit	6/2/2023
27.	Prof. Nouar Tabet	DAPA, UOS	Lifetime, Defects and Perovskite Solar Cell Performance	20/2/2023
28.	Dr. Muad Ghaith	Zayed University, UAE	Status of SuperCDMS SNOLAB Experiment	22/3/2023
29.	<p>The students:</p> <ol style="list-style-type: none"> 1. Abdelrahman I. M. Abu Siamh 2. Firoz Chogle 3. Lin Rami Sadalddin Benchi 4. Noora Ali Mohammed 	DAPA, UOS	DAPA Senior Project Presentations-Spring 2023	16/5/2023

5. Hassan Basheer Hadi Haboub			
6. Fatimaalzhra Nadeir			
7. Hareem Iqbal Khan			
8. Ganna Yehia Abdelgawad Abdelmoneim			
9. Reem Belal Asad Irshaid			
10. Rashid Mohammad Hamad Khamis Almuhairi			
11. Mohammed Aminu			

o Community Engagement

Community Service

No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR or Referee (Total =...)				
	SICPAM Conference	Conference	27/4/2023	International
	EmSAT	Exam	Spring	Local
	School Visit	Visit	Spring	School Visits
	Master Classes (CERN)	Training workshop	Spring/2023	School in UAE and international schools
	Russian and Arab conference	conference	31 May – 1 June 2023	Rectors of Arabs and Russian Universities
	University open day	Open day	Spring 2023	schools
	Student Scientific Clubs Exhibition. (Hamza), Nawal https://docs.google.com/document/d/1tHYwdbNRVnhAH25Q3eY8p9tM-upxXKtx/edit?usp=sharing&oid=112010672451235750240&rtpof=true&sd=true	Exhibition March 7th,2023 UOS Students	March 7 th ,2023	UOS Students
	Science fair for school students (Hamza) https://drive.google.com/file/d/1FdvtP7XYLF_o0ux7mrceQ0AhC_rossub/view?usp=sharing	Science Fair	May 2 nd ,2023	UOS visitors
	UOS Open Day (College Coordinator) (Hamza) https://drive.google.com/file/d/1DGFAJwhsQ8i5kadQuDc0IWgTH2HjQ_hE/view?usp=sharing	Public Relations	2-6 May 2023	UOS visitors
	EmSAT and Master Classes. (Hamza)	Exam & Training Workshop	Spring 2023	School Students
	Central Committee of Student Councils. (Hamza)	Clubs & Societies	Fall and spring 2022-2023	UOS Students
	Science fair for school students Co-Chair: Saja Abdul-Hadi	Science Fair	May 2 nd ,2023	UOS Schools students
	“Women in Research Forum – Youth Engagement Committee” Co-Chair: Saja Abdul-Hadi	Forum	August , 30th 2023	Internatiomnal
	College Of Sciences Social Committee	- Elderly home visit - Solar Park trip	November 29th, 2022	College of sciences Faculty,

	Chair: Saja Abdul-Hadi	- Observing Ramadan Crescent. -Eid Al-Fitr Plate gathering	February 11 th 2023 March 22 nd 2023 April 24 th 2023	Staff and Students
	Ramadan workshop	workshop	15-3-2023	Public
CHAIR (Total =...)				
	Supervisor of Students' Scientific Society. (Hamza), Nawal https://drive.google.com/file/d/1nQvehApup9EhSxsiPz1iyQcc3-Y0bxR6/view?usp=share_link	Clubs & Societies	Fall and spring 2022-2023	DAPA Students
	UOS Open Day (College Coordinator) (Hamza) https://drive.google.com/file/d/1DGFAJwhsQ8i5kadQuDc0IWqTH2HjQ_hE/view?usp=sharing	Public Relations	2-6 May 2023	UOS visitors
TV/NEWSPAPERS (Total = ...)				
	College Of Sciences Social Committee Chair: Saja Abdul-Hadi	Social Activities	November 29 th , 2022 February 11 th 2023 March 22 nd 2023 April 24 th 2023	College of sciences Faculty, Staff and Students
	Journal article about “The University during the Pandemic: Flexible Adaptation and Employing Technology for Distance Education” (Hamza) https://docs.google.com/document/d/1gJf64mB5zIW2K-p_Z0fJgo6EW53-aqc/edit?usp=sharing&oid=112010672451235750240&rtpof=true&sd=true	Newspaper articles May 2023 Public and Students	May 2023	Public and Students

External Committees (Total = ...)				
	Physics National Committee for EmSAT (Saja): Consultant, Comparative Judgement, Item Writer and Reviewer	National Committee	September 2019 -Now	National and International Examination Department- Ministry of Education.
	Physics Assessment committee (Saja)	National Committee	January 2022 - Now	National and International Examination Department- Ministry of Education

*Event Types: Newspaper articles, TV & Radio, Seminars & Workshops, Public Lectures ...etc.

** look to previous section in 5.6 Student Extra-Curricular Activities

DEPARTMENT OF MATHEMATICS

A Brief Idea about the Report

This report is designed according to the Standards for Licensure and Accreditation (2011 version). The collected data will be used to form the annual report at the college and university level, in addition to the report submitted to the Board of Trustees and the Accreditation Commission. There is no doubt that the ideal harmony of efforts to prepare reports will save time and energy for faculty, chairpersons and deans as the same data will be used for different purposes without repetition.

This stage of data collection will be followed by more analysis to reflect achievement in the most suitable manner.

The college or department may add parts' comments or additional data that may serve any special nature of the program and enrich the report and make it more comprehensive. These observations and exchange of experience will benefit all.

You are welcome to communicate with the Directorate of Quality Assurance, Institutional Effectiveness and Accreditation in case of any enquires. We are also ready to meet with coordinators, departments or colleges as required.

DEPARTMENT VISION

To become one of the leading departments in the Gulf region, renowned and recognized for the stylish research in Mathematics and Statistics and the ability to prepare students for leadership roles.

DEPARTMENT MISSION

The mission of the Department of Mathematics is to provide high quality education to students to become high caliber professionals capable of contributing to the development of the country and to instill a spirit of independent research and a deep commitment to lifelong learning and continuous progress.

DEPARTMENT VALUES

We, in the Department of Mathematics, value

- A tradition that provides a basis for lifelong learning and critical thinking and supports the professional aspirations of our students and our community;
- Active pursuit of learning and scholarship in Mathematics through research and its dissemination through publication and teaching;
- A variety of ideas and approaches that support the growth of students, faculty and staff.
- A collaboration in teaching and research that enhances the Department's growth and visibility.

DEPARTMENT HIGHLIGHTS

1. The Department got the international ABET accreditation for its B.Sc. program. It is the first such international ABET accreditation in the region.
2. The ABET accreditation is valid till 2027.
3. The Department of mathematics will offer a master starting from Fall 2023-2024
4. The Department of Mathematics participated actively in most of the activities organized by the University inside and outside the campus.
5. The Faculty members were active in online teaching and examination using the BB system and other software programs like MS Teams and Zoom.
6. Online resources provided by McGraw Hill & Wiley are used by University students in Calculus I, Calculus II, Calculus III and linear Algebra courses.
7. The Faculty members were active in research and published many referred journal papers (Scopus & ISI).
8. Nine members of the Department participated in international conferences.
9. Many faculty members were among the members of the organizing/scientific committees of international conferences.
- 10.

COLLEGE AND DEPARTMENT COMMITTEES

College Committees

<p>15. The Curriculum Committee (CCC): Prof. Ismail Saadoun Chair Prof. Elsiddig Elsheikh Prof. Raed Al Qawasmeh Dr. Gehad Sadeq Dr. Mohammad Al Akhras</p>
<p>16. Formation of the Outreach Committee Prof. Ideisan Abu-Abdoun Chairman Prof. Ali El Keblawy Dr. Hafsa Khurshid Dr. Mohamad Saleh Bataineh</p>
<p>17. Formation of the Laboratory and Safety committee Dr. Aysar Nahle Chairman Dr. Ban Al Joubori Mrs. Nawal Nayfeh</p>
<p>18. Formation of the Student Success and Academic Advising committee Prof. Bassem Atilli Chairman Dr. Ahmad Al-mahdai Dr. Hachemi Benaoum Dr. Khalid Bajou</p>
<p>19. Formation of the Class Schedules and Examination Committee Mr. Omar Adwan Chairman Prof. Muhamad Islam Dr. Muhammad Nasir Khan Mrs. Azeera Abdul Rahim</p>
<p>20. Formation of the College Website Committee Mrs. Uzma Khan Chairman Dr. Kais Daoudi Dr. Marwan Al-Momani Mrs. Mona El-Harakeh Ms. Batoul Majed Karzoun</p>

21. Formation of the Strategic Planning and Annual report Committee

Prof. Mostafa Zahri Chairman

Dr. Abdelaziz AL-Gamouz

Dr. Yassir Abdu

Dr. Ban Al Joubori

Mrs. Racha Al-Khoury

Ms. Batoul Majed Karzoun

22. Formation of the Research and Conferences Committee

Prof. Nezar Hammouri Chairman

Prof. Raed Al Qawasmeh

Prof. Belkacem Said-Houari

Dr. Kamrul Hassan

Dr. Zahid Riza

Dr. Daniel Moraetis

Dr. Amir Ali Khan

Dr. Khalid Bajou

23. Formation of the Social Committee

Mrs. Saja Abdulhadi Chairman

Mrs. Mona El-Harakeh

Mrs. Kholoud Mustafa

Mrs. Islam Eltayeb

Ms. Batoul Majed Karzoun

24. Disciplinary Committee:

Dr. Firas Ghanim Ahmed (Chair)

Dr. Samar Abdullah M Damiaty

Dr. Abdullah Fahad Al Mutery

Mr. Mohammed Mansour

25. Formation of the Graduate Studies Committee

Prof. Abdelnasser Kawde Chairman

Prof. Salim Messoudi

Prof. Mashhoor Alwardat

Prof. Ihsan Mahasneh

26. Formation of the Program Effectiveness and Accreditation Committee	
Prof. Ali Jaballah	Chairman
Prof. Amine Ahriche	
Prof. Elsiddig Elsheikh	
Dr. Abdelaziz AL-Gamouz	
27. Formation of the Multidisciplinary Programs Committee	
Dr. Hassen Hadjkacem	Chairman
Dr. Mohammad El-Nageer	
Dr. Hamdan Ali Hamdan	
Dr. Aziz Takhirov	
28. Committee Msc. Program in Biology entrepreneurship	
Dr. Hassen Hadj Kacem (Chair),	
Professor Elsiddig Ahmed Elsheikh	
Dr. Mona Hassuneh	

DEPARTMENT COMMITTEES 2022/2023	
18.	Student Affairs, Alumni and tutorial Committee
	<ul style="list-style-type: none"> • Dr. Mohammad Bataineh • Prof. Basem Attili
19.	Curriculum Committee
	<ul style="list-style-type: none"> • Prof. Ali Jaballah • Dr. Mohammed Al-Akhrass • Dr. Marwan Al Momani
20.	Examinations Committee
	<ul style="list-style-type: none"> • Prof. Muhammad Islam • Mrs. Kholoud Mustafa
21.	Teaching Schedule and Online Teaching Committee
	<ul style="list-style-type: none"> • Dr. Mohammed Al-Akhrass • Dr. Aziz Takhirov
22.	Community Service and Social Committee
	<ul style="list-style-type: none"> • Dr. Aziz Takhirov • Mrs. Kholoud Mustafa • Prof. Mahmoud Ben khalifa • Mrs. Nida Sidiqoui
23.	Scientific Research and Seminar Committee
	<ul style="list-style-type: none"> • Prof. Belkacem Said-Houari • Prof. Mahmoud Ben Khalifa

	<ul style="list-style-type: none"> • Dr. Aziz Takhirov • Dr. Zahid Raza
24.	Accreditation and Academic Plans <ul style="list-style-type: none"> • Prof. Ali Jaballah and Dr. Firas Ghanim • All members of the department
25.	Student Advising Committee <ul style="list-style-type: none"> • Dr. Zahid Raza • Dr. Mohammad Bataineh
26.	Annual report and Strategy Planning Committee <ul style="list-style-type: none"> • Prof. Mostafa Zahri • Prof. Muhammad Islam
27.	Conference and workshop Committee <ul style="list-style-type: none"> • Prof. Salim Messaoudi • Prof. Basem Attili • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane • Prof. Mahmoud Ben khalifa • Prof. Mostafa Zahri • Prof. Belkacem Said-Houari • Dr. Zahid Raza • Dr. Mohammed Al-Akhrass • Dr Marwan Al Momani • Mrs. Nida Siddiqui
28.	Program Assessment Report Committee <ul style="list-style-type: none"> • Prof. Abdelaziz Soufyane • Prof. Ali Jaballah
29.	Departments Website and software Committee <ul style="list-style-type: none"> • Mrs. Nida Siddiqui (English) • Dr Marwan Al Momani (Arabic)
30.	Internship and Training Committee <ul style="list-style-type: none"> • Dr. Marwan Al Momani • Dr. Firas Ghanim
31.	Library, Computing Resources, and Educational Technology Tools Committee. <ul style="list-style-type: none"> • Prof. Mahmoud Ben khalifa • Dr. Firas Ghanim • Dr. Mohammed Al-Akhrass
32.	Outreach Committee. <ul style="list-style-type: none"> • Mrs. Kholoud Mustafa • Mrs. Nida Siddiqui
33.	Council secretary Prof. Basem Attili
34.	Department representative in college council <ul style="list-style-type: none"> • Prof. Mostafa Zahri

DEPARTMENT ADVISORY BOARD MEMBERS

The Advisory Board Committee for the department:

DEPARTMENT ADVISORY BOARD MEMBERS

Table 1- 1: Current Membership of the Department of Mathematics Advisory Board (DAB)

No.	Name	Organization	Position
1	Prof. Mohammed Sababbeh	Princess Sumaya University for Technology, Jordan.	Associate Vice President for administrative affairs
2	Prof. Toka Diagana	University of Alabama in Huntsville, USA.	Chair of the Department of Mathematical Sciences
3	Ms. Nada Yousef Maraka, Math Alumni	Al-Ansar International School in Sharjah	Teacher

PROGRAMS OFFERED IN 2022-2023

No.	Program
3.	B.Sc. in Applied Mathematics
	Starting from Fall 2023-2024

Academic Accreditation Status

No.	Program	Deg.	Status	From	To	Comments
1.	Bachelor in Mathematics	Bachelor	Full Accreditation	April 2016	April 2021	
2.	Bachelor in Mathematics	Bachelor	ABET Accreditation	April 2012	2021	
3.	Bachelor in Mathematics	Bachelor	ABET Accreditation	April 2022	2027	

FACULTY AND PROFESSIONAL STAFF

List of Full-Time Faculty Members:

ID. #	Name	Rank	Department	Specialization	Comments
101504	Abdelaziz Soufyane	Professor	Mathematics	Control Theory of PDEs	
10739	Basem Attiti	Professor	Mathematics	Numerical Analysis	
10311	Ali Jaballah	Professor	Mathematics	Algebra & Fuzzy Sets	
101720	Salim Messaoudi	Professor	Mathematics	Partial Differential Equations	
101630	Mostafa Zahri	Professor	Mathematics	Applied Mathematics	
101615	Belkacem Said-Houari	Professor	Mathematics	Analysis of PDEs	
101320	Muhamed Islam	Professor	Mathematics	Partial Differential Equations	
101321	Mahmoud Binkhalifa	Professor	Mathematics	Algebraic topology	
101016	Firas Ghanim Ahmed	Associate Prof.	Mathematics	Complex Analysis	
101323	Mohamed Bataineh	Associate Prof.	Mathematics	Extremal Combinatorics	
101322	Zahid Raza	Associate Prof.	Mathematics	Pure and Appl. Mathematics	
101110	Mohammad Alakhrass	Associate Prof.	Mathematics	Mathematical Analysis	
	Aziz Takhirov	Assistant Prof.	Mathematics	Numerical Analysis	
	Tahir Abas	Assistant Prof.	Mathematics	Statistics	
	Marwan Al Momani	Assistant Prof.	Mathematics	Statistics	
101009	Nida Siddiqui	Lecturer	Mathematics	Mathematics	
10883	Kholoud Mustafa	Lecturer	Mathematics	Mathematics	

List of Part-Time Faculty Members:

Name	Rank	Department	Specialization	Comments
Nosheen Zareen Khan	Lecturer	Mathematics	Appl. Mathematics	

FACULTY ANALYSIS

Teaching Load:

Faculty name	Rank	Full-Time or Part-Time	Fall		Spring	
			Contact Hours	Credit Hours	Contact Hours	Credit Hours
Abdelaziz Soufyane	Professor	Full -Time	3	3	3	3
Bassem Attili	Professor	Full -Time	9	9	12	12
Ali Jaballah	Professor	Full -Time	12	12	12	12
Salim Messaoudi	Professor	Full -Time	12	12	9	9
Mostafa Zahri	Professor	Full -Time	12	12	12	12
Mahmoud Benkhelifa	Professor	Full -Time	12	12	12	12
Belkacem Said-Houri	Professor	Full -Time	12	12	15	15
Muhammad Islam	Professor	Full -Time	12	12	12	12
Firas Ghanim Ahmed	Associate Prof.	Full -Time	12	12	12	12
Zahid Raza	Associate Prof.	Full -Time	12	12	12	12
Mohammad Bataineh	Associate Prof.	Full -Time	12	12	12	12
Mohammad Alakhrass	Associate Prof.	Full -Time	12	12	12	12
Aziz Takhirov	Assistant Prof.	Full -Time	12	12	12	12
Marwan Al Momani	Assistant Prof.	Full -Time	12	12	12	12
Tahir Abas	Assistant Prof.	Full-Time	0	0	12	12
Mrs. Kholoud Abu Rezaq	Lecturer	Full-Time	15	15	15	15
Mrs. Nida Siddiqui	Lecturer	Full-Time	15	15	15	15
Nosheen Zareen Khan	Lecturer	Part-Time	12	12	12	12
Sum						

The Education Program

Curriculum Development

No.	Course/Program	Development*	Description
13-	Mathematical Methods for Bioinformatics	New course for MSc for Biomedical Health informatics	Preparing a course outline.
14-	Mathematical Modeling	New course for BSC. Math	Preparing a course syllabus (Dr. Mostafa and Prof. Abdelaziz).

*Development:

- 1- Program Update: changes in the structure of an offered program
- 2- Course Update: change in course name, pre-requisites, credit hours, ..etc.
- 3- New Course
- 4- Content Development
- 5- Others (specify)

Teaching & Learning

Methods for teaching and learning (new methods and enhancements on current methods):

[Examples: Team-based learning, Problem based learning, group studies, case studies, projects, ...etc]

These will reflect what is actually done in classrooms and documented in the course files.

29-	Online teaching, quizzes, exercises and final exam using the BB system and other software programs like MS teams.
30-	Final year project was discussed using the online system
31-	Bi-weekly tutorial sessions have been started the fall semester for the courses Calculus 1 (1440131), Calculus 2 for Engineering (1440161).
32-	Home works have been assigned to students
33-	Design and update for the PowerPoint Slide Notes
34-	Programming projects for mathematical software in Matlab, Latex and mathematics
35-	Online teaching, quizzes, exercises and final exam using the BB system and other software programs like MS teams for the Spring 2019/2020.
36-	Final year project was discussed using the online system
37-	Weekly tutorial sessions have been started the fall semester for the courses Calculus 1 (1440131), Calculus 1 for Engineering (1440133), Calculus 2 (1440132), Calculus 2 for Engineering (1440161), Into. Prob. and Stat., and Linear algebra (1440211) (Spring Semester 2019/2020)
38-	Home works have been assigned to students
39-	Design and update for the PowerPoint Slide Notes
40-	Problem solving approach was adopted in these four courses(Business Stat., Probability and Statistics, Business Math and Math Business)
41-	Home works have been assigned to students
42-	Design Problem sets for the course Math. For Eng. to enhance student learning.
43-	Case Studies: Statistics for Science Lab
44-	Group learning techniques
45-	Project for students

Internship Statistics

Seven are at SKAAST, and one in Indian Squad Association, Lakemba, Sydney, Australia

	Summer	Fall	Spring	Total
# Training Sites				
# Trainee Students (National in UAE)	8	0	0	8
# Trainee Students (Training abroad)				

Internship Sites

No.	Site Name	Emirate	# Male Students	# Female Students	Total
1	Sharjah Academy of Astronomy, Space sciences & Technology	Sharjah	1	6	8
2	Indian Squad Association, Lakemba, Sydney, Australia	Australia	0	1	

Self-Evaluation of the Internship

Plans for future Enhancing Internship

Faculty Development

No.	Development Event*	Development Area**	Description
109.	<i>Workshops</i>	<i>International Ranking</i>	<i>International Webinar organized by Times higher education 2023.</i>
110.	<i>Workshops</i>	<i>Teaching & Learning</i>	<i>Online teaching practices.</i>
111.	<i>Conferences</i>	<i>Research</i>	<i>Chair session in international conferences.</i>
112.	<i>Webinar</i>	<i>Teaching</i>	<i>. How Does Learning Work Best Using Emotional Intelligence.</i>
113.	<i>Webinar</i>	<i>Assessment</i>	<i>Rethinking Examinations</i>
114.	<i>Webinar</i>	<i>Teaching</i>	<i>Effective Instructional Design</i>
115.	<i>Webinar</i>	<i>Teaching</i>	<i>Moving from teacher centered to student centered</i>
116.	<i>Webinar</i>	<i>Technology in Teaching</i>	<i>Future of Education with Chatbot</i>
117.	<i>Webinar</i>	<i>Assessment</i>	<i>Beyond Traditional Testing: Exploring Alternative Assessments in the Age of AI</i>
118.	<i>Webinar</i>	<i>Technology in Teaching</i>	<i>The Future of Education with AI Chatbots: Challenges, Opportunities and Implications</i>
119.	<i>Workshop</i>	<i>Teaching</i>	<i>My mathlab demonstratio presentation</i>
120.	<i>Webinar</i>	<i>Assessment</i>	<i>Program evaluaiton and continuous improvement</i>
121.	<i>Workshop</i>	<i>Applied Mathematics</i>	<i>Workshop on PDE and application</i>
122.	<i>Webinar</i>	<i>Teaching</i>	<i>. How Does Learning Work Best Using Emotional Intelligence.</i>
123.	<i>Webinar</i>	<i>Assessment</i>	<i>Rethinking Examinations</i>
124.	<i>Workshops</i>	<i>International Ranking</i>	<i>International Webinar organized by Times higher education 2023.</i>
125.	<i>Workshops</i>	<i>Teaching & Learning</i>	<i>Online teaching practices.</i>
126.	<i>Conferences</i>	<i>Research</i>	<i>Chair session in international conferences.</i>
127.	<i>Workshops</i>	<i>Research</i>	<i>Organizing committee member.</i>
128.	<i>Conference</i>	<i>Research</i>	<i>"UAE Math Day 2023", Zayed University, UAE, March 4, 2023</i>
129.	<i>Presentations</i>	<i>Teaching & Learning</i>	<i>"Pi Day" held in the Math Department</i>
130.	<i>Presentations</i>	<i>Teaching & Learning</i>	<i>"Graduation Projects Day" held in the Math Department</i>
131.	<i>Forum</i>	<i>Research</i>	<i>"The 15th Annual Scientific Research Forum" at UOS</i>
132.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Workshop: Rethinking Examinations in Higher Education</i>
133.	<i>Workshop</i>	<i>Research</i>	<i>Workshop on Recent Advances in Analysis and Applications- United Arab Emirates University</i>

134.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Workshop: Preparation for CAA Accreditation and Response to ABET Requirements. A Collective Effort and Team Work</i>
135.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Workshop on accreditation: Best practices to keep always ready for accreditation</i>
136.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Pearson Middle East MyLab Math workshop & product demonstration</i>
137.	<i>Workshop</i>	<i>Research</i>	<i>Workshop on PDES and Applications</i>
138.	<i>Conference</i>	<i>Research</i>	<i>"UAE Math Day 2023", Zayed University, UAE, March 4, 2023</i>
139.	<i>Presentations</i>	<i>Teaching & Learning</i>	<i>"Pi Day" held in the Math Department</i>
140.	<i>Conference</i>	<i>Research</i>	<i>"UAE Math Day 2023", Zayed University, UAE, March 4, 2023</i>
141.	<i>Presentations</i>	<i>Teaching & Learning</i>	<i>"Graduation Projects Day" held in the Math Department</i>
142.	<i>Forum</i>	<i>Research</i>	<i>"The 15th Annual Scientific Research Forum" at UOS</i>
143.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Workshop: Rethinking Examinations in Higher Education</i>
144.	<i>Workshop</i>	<i>Research</i>	<i>Workshop on Recent Advances in Analysis and Applications- United Arab Emirates University</i>
145.	<i>Workshop</i>	<i>Teaching & Learning</i>	<i>Workshop: Preparation for CAA Accreditation and Response to ABET Requirements. A Collective Effort and Team Work</i>
146.	<i>UOS 4th Annual Strategic Conference</i>	<i>Conference</i>	<i>Local</i>
147.	<i>"CoS Students' Research Projects Defense Day"</i>	<i>Defense Day</i>	<i>Local</i>
148.	<i>UOS 4th Annual Strategic Conference</i>	<i>Conference</i>	<i>Local</i>
149.			
150.			
151.			
152.			
153.			
154.			
155.			
156.			
157.			
158.			
159.			

*Development Event: Training, Workshop, Seminars ...etc.

** Development Area: Teaching & Learning, Assessment ...etc.

Awards and Prizes

No.	Prize Name	Awarded To	Awarded By
13.			
14.			

Students

Major	Program	No. of Students (Fall 2021-22)	No. of Students (Spring 2022)	Total
Mathematics	B.Sc. Mathematics	46	46	46

Student Advising

No.	Faculty Name	Rank	# Male Students		# Female Students	
			Fall	Spring	Fall	Spring
1	Abdelaziz Soufyane	Professor	1	1	2	2
	Bassem Attili	Professor	1	1	2	2
	Ali Jaballah	Professor	1	1	2	2
	Salim Messaoudi	Professor	1	1	2	2
	Mahmoud Benkhelifa	Professor	0	0	3	3
	Belkacem Said-Houri	Professor	1	1	2	2
	Mostafa Zahri	Professor	0	0	3	3
	Muhammad Islam	Professor	1	1	2	2
	Firas Ghanim Ahmed	Associate Professor	2	2	1	1
	Zahid Raza	Associate Professor	0	0	3	3
	Mohammad Bataineh	Associate Professor	0	0	3	3
	Mohammad Alakhrass	Associate Professor	0	0	3	3
	Aziz Takhirov	Assistant Professor	0	0	4	4
	Marwan Al Momani	Assistant Professor	1	1	2	2
	Tahir Abas	Assistant Professor	0	0	2	1
Total			9	9	36	35

*Rank: Full Professor, Associate Professor, Assistant Professor, Lecturer

Efforts to Enhance Academic Advising:

- All faculty have been requested to meet at least once per semester with students.
- Follow closely with students who are under probation and advise them accordingly.
- Contact with advisees and keep records of their academic achievements.

Student Extra-Curricular Activities

No.	Activity Name	Type*	Scope**	Date	Beneficiaries
11.	<i>"Pi Day" held in the Math Department</i>	Open day	Student activity	April 2023	Students and faculty
12.					
13.					
14.					
15.					
16.					
17.					

* Types: Clubs & Societies, Volunteer, Social & Athletic, Arts & Exhibitions, Contests, Other

** Scope: Local (University Level), National, International

Student Awards

No.	Competition	Venue	Date	Award
1.				
2.				
3.				
4.				
5.				

Learning Resources

Summary of available learning resources (e.g. books, periodicals, electronic resources, laboratories)

No.	Learning resource
1.	Online Blackboard System
2.	Online Mathematics and Statistics journals.
3.	Computer Lab
4.	Library

Summary of information technology methods used in enriching teaching, learning and research

No.	Information technology system/method
1.	Blackboard system
2.	MS Teams
3.	Zoom
4.	Banner System
5.	What's up
6.	McGraw Hill Online Assignments and assessments
7.	Wolfram CDF player for Wolfram Demonstration Projects
8.	Maple software
9.	SPSS software

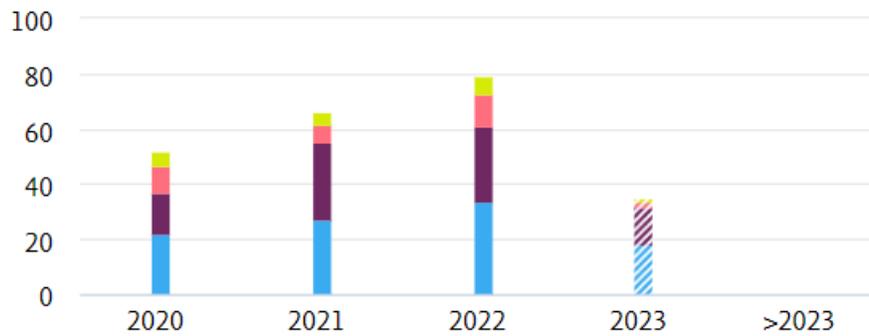
Research and Scholarly Activities

Publications for the Year 2022-2023. (24 June 2023)

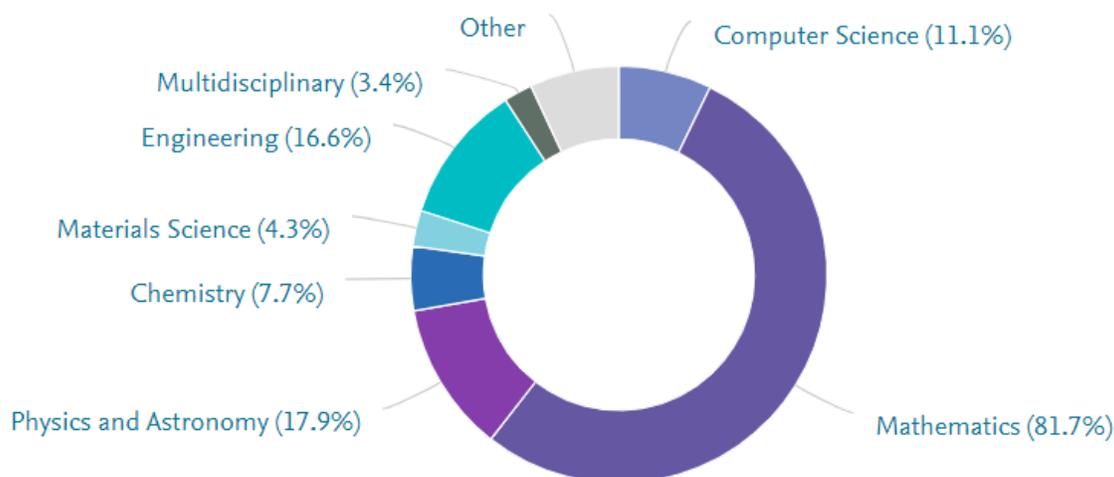
	2020	2021	2022	2023
Scholarly Output	54	66	79	36
Citations	513	301	161	19

Publications by Journal quartile

Quartiles	Publications ?	Publication share (%)
 Q1 (top 25%)	101	43.5
 Q2 (26% - 50%)	84	36.2
 Q3 (51% - 75%)	31	13.4
 Q4 (76% - 100%)	16	6.9
Cumulative shares	Publications	Publication share (%)
Q1 to Q2 (top 50%)	185	79.7
Q1 to Q3 (top 75%)	216	93.1



Publication share by Subject Area



List of Publications

* Category: Book, Journal, Book Chapter, Conference, Technical Report, Manual, Artistic Work ...etc.

Funded Research

No.	Project Title	Principal Investigator	Grant Source	Amount (AED)
29.	"On the stability of some wave and viscoelastic systems with non-standard nonlinearities"	Prof. Salim Messaoudi	UOS	30000
30.	Implementation of Geometric Function Theory in Mathematical Areas Such as Fuzzy Sets and Differential Equations with their Applications	Firas Ghanim Ahmed	University of Sharjah	34000
31.				
32.				
33.				
34.				
Total				9

Events

No.	Event Name	Type*	Scope**	Date	Beneficiaries
19.		Workshop	National		Students
20.	The first mathematics Gathering	Workshop	National	23/02/2021	Students
21.	Math Day	Gathering and contest	National	7/11/2021 1/3/2022	Students
22.	UOS 3rd Annual Strategic Conference	Conference	Local	9/12/2021	Faculty
23.	The Sharjah International Conference on Education in Post Covid-19	Conference	International	14 -16/3/2022	Faculty and researchers
24.	McGraw Hill Prize for Academic Excellence	Workshop	National	18/5/2022	Students
25.	برنامج الماجستير بجامعة الشارقة من القبول الى نيل الشهادة	workshop	National	07/02/2022	UOS faculty members
26.	الجولة الافتراضية بمتح الشارقة للحضارة الإسلامية	workshop	National	22/02/2022	UOS faculty members
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					

*Event Types: Symposium, Seminar, Conference, Workshop, Exhibition, Other

** Scope: Local (University Level), National, International

Community Engagement

Community Service

No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR (Total =8)				
83.	The first mathematics Gathering.	Talk: Mathematical modeling of Islamic design	23Feb, 2021	Students
84.	"Workshop on PDES and Applications"UOS	Muhammad Islam Mustafa	February 11, 2023	Session Chair
85.	"Modeling, Analysis and Simulation of some Evolutionary phenomena"	Research Group		Faculty and researchers
86.	Google Scholar	Scientific Society		Researchers
87.	Research Gate	Scientific Society		Researchers
88.				
89.				
90.				
91.				
CHAIR(Total = 20)				
92.				
93.				
94.				
95.				
96.				
Membership (Total = 11)				
97.				
98.				
99.				
100.				
101.				
102.				
103.				

104.				
105.				
106.				
107.				
TV/NEWSPAPERS (Total = 1)				
108.				
109.				
110.				
JUDGE (Total = 01)				
111.	The Science Fair Festival for High School Students		2/5/2023	
112.				
113.				
114.				
115.				
116.				
SPEAKER (Total = 8)				
117.	webinar: This certificate is given to Symmetry Symmetry in Functional Equations and Analytic Inequalities		12/5/2023	
118.				
EDITOR (Total = 43)				
119.	Asian Journal of Applied Science and Technology (AJAST) Global Journal of Mathematical Analysis (GJMA)	Firas Ghanim Ahmed	Since 2017	Editor
120.	Symmetry	Firas Ghanim Ahmed	2022	Guest Editor
121.	International Scientific Journal	Firas Ghanim Ahmed	2015	Editor
122.	Global Journal of Mathematical Analysis (GJMA)	Firas Ghanim Ahmed	2015	Editor
123.	International Journal of Transformation in Applied Mathematics & Statistics (IJTAMS)	Firas Ghanim Ahmed	2017	Editor
124.	International Release of Mathematics and Mathematical Sciences	Firas Ghanim Ahmed	2017	Editor
125.	Online Mathematics Journal.	Firas Ghanim Ahmed	2017	Editor

126.				
127.				
128.				
129.				
130.				
ORGANIZER (Total = 15)				
131.				
132.				
133.				
134.				
135.				

*Event Types: Newspaper articles, TV & Radio, Seminars & Workshops, Public Lectures ...etc.

Community Service

No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR (Total =8)				
CHAIR(Total = 20)				
1.	"Workshop on PDES and Applications"UOS	Muhammad Islam Mustafa	February 11, 2023	Session Chair
Membership (Total = 11)				
2.	"Modeling, Analysis and Simulation of some Evolutionary phenomena"	Research Group		Faculty and researchers
3.	Google Scholar	Scientific Society		Researchers
4.	Research Gate	Scientific Society		Researchers
5.	Scopus	Scientific Society		Researchers
TV/NEWSPAPERS (Total = 1)				
JUDGE (Total = 01)				
6.	Graduation project "Harmonic functions and Dirichlet problems"	Dr. Muhammad Islam (Jury Member)	21/12/2022	Judge
SPEAKER (Total = 8)				
7.	"UAE Math Day 2023", Zayed University	Decay rates for wave equations with frictional versus viscoelastic damping	4/3/2023	Researchers
EDITOR (Total = 43)				
8.	" SeMA Journal "	Dr. Muhammad Islam	2022	Referee

9.	"Evolution Equations and Control Theory"	Dr. Muhammad Islam	2022	Referee
10.	"Journal of Mathematical Analysis and Applications"	Dr. Muhammad Islam	2023	Referee
ORGANIZER (Total = 15)				

*Event Types: Newspaper articles, TV & Radio, Seminars & Workshops, Public Lectures ...etc.

Seminars

No.	Speaker	Affiliation	Title	Date
1.	Marwan Al-Momani	University of Sharjah	An Improved Pretest Estimator	January 25, 2022
2.	Marwan Al-Momani	University of Sharjah	Pretest and shrinkage Estimation of the regression parameter vector of the marginal model with multinomial responses	February 16, 2023
3.	Mostafa Zahri	University of Sharjah	Numerical methods for stochastic differential equations	Nov 2023
4.	Abdelaziz Soufyane	UoS	Stabilization Results of a Piezoelectric Beams with Partial Viscous Dampings and Under Lorenz Gauge Condition.	November 2022
5.	Muhammad Islam Mustafa	"UAE Math Day 2023", Zayed University	Decay rates for wave equations with frictional versus viscoelastic damping	March 4, 2023
6.	Tahir Abass	University of Sharjah	Memory type profile charts for monitoring chemical manufacturing using CSTR data	January 2023
7.	Ali Jaballah	University of Sharjah	Graphical Characterizations of some integral domains	April 2023
8.	Mohammad Ghalib AL Akhrass	University of Sharjah	SPECIAL CLASSES OF MATRICES	April 2023

























9th Chemistry Festival





The 51st UAE National Day Celebration at UoS





SOLAR PARK VISIT





Pictures











25

معرض الصور الفوتوغرافية لمسيرة كلية العلوم خلال ربع قرن

PHOTOGRAPHIC GALLERY OF THE COLLEGE OF
SCIENCES JOURNEY OVER 25 YEARS

الثلاثاء 14 مارس 2023 (مبنى كلية العلوم, M7) 10:00 صباحاً



كلية العلوم
COLLEGE OF SCIENCES





University of Sharjah is at University of Sharjah.

May 3 at 9:57 AM · Sharjah · 🌐

بهدف تعريف طلبة برنامج بكالوريوس علوم الأرض البترولية والاستشعار عن بعد بمختلف المسارات الوظيفية المستقبلية لهم، نظمت الجمعية الطلابية للمنظمة الأوروبية للجيولوجيين والمهندسين (EAGE) بكلية العلوم ندوة حول الفرص الوظيفية للجيولوجيين، استضافت خلالها عدد من المتحدثين المتخصصين في مجال علوم الكواكب وصناعة البترول والتعدين والجيولوجيا والهندسة، واختتمت الندوة بالرد على أسئلة واستفسارات الطلبة.

معاً نطعم الفرق
MAKING A DIFFERENCE TOGETHER



برعاية سمو الشيخ سلطان بن أحمد القاسمي نائب حاكم الشارقة رئيس الجامعة، بدء الجلسات العلمية لمؤتمر الشارقة الدولي في فيزياء المواد المتقدمة بجامعة الشارقة في يومه الأول، والتي تضمنت عقد جلستين نقاشيتين، بالإضافة إلى 6 جلسات بحثية متوازية، تناولت عدد من الموضوعات منها استخدامات المواد المتقدمة وتطبيقاتها في مجالات الصناعات الحديثة ومعالجة المياه والصحة العامة.







WORKSHOP ON ARTIFICIAL INTELLIGENCE

The workshop will introduce the basics of AI and its applications. During the workshop, you will learn about the different types of AI and machine learning algorithms and the future of this technology. It will be an excellent opportunity to learn more about AI and its potential impact on your field.

Mentor : Zeyad Ahmad, from the computing college
Monday, February 20, from 11 am to 1 pm in meeting room M7-221







ورشة "شهر رمضان المبارك" 1444 هـ

المحاضرة 1:

"هلال رمضان في ضوء الحديث النبوي الشريف"
المحاضر: أ.د. عبد السميع الأنيس - جامعة الشارقة

المحاضرة 2:

"حل مشكلة الهلال هو التقويم الإسلامي"
المحاضر: أ.د. جمال قسوم - الجامعة الأمريكية بالشارقة



Invitation | دعوة

تتشرف
أكاديمية الشارقة
لعلوم وتكنولوجيا الفضاء
والفضاء بالتعاون مع
قسم الفيزياء التطبيقية والفضاء
(جامعة الشارقة)
وقسم أصول الدين (جامعة الشارقة)
ب دعوتكم



Wednesday
15 March 2023



12:00^{pm} - 02:00^{pm}
Arabic



SAASST
Conference Room

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CONGRATULATIONS TO OUR STUDENT FATIMA MOHAMED HASHIL MOHAMED ALKHATERI

- Chair's welcome
- Graduate Career Opportunities
- SAAS
- AM
- Testimonials

Congratulation to our student Fatima Mohamed Hashil Mohamed Alkhateri to be the first student getting an M.Sc. in Astratonomy and Space sciences from the UOS.



CONDUCTED WORKSHOP ON CAA ACCREDITATION FILE PREPARATION

M7-Meeting Room | 8 DEC 2022 | 3 PM

Prof. Essam Agamy Vice Chancellor for Institutional Effectiveness and Accreditation and his team held a workshop on CAA accreditation file preparation















رحلات الفضاء.. ومفاجآتها على مستوى العلوم

علوم الارض تنتظر من الفضاء الكثير من المفاجآت.. والحماسة لاكتشاف عالم الفضاء الساحر يضع العلم في اعلی جهوزية لتعديل وتصحيح نظريات قد تصبح قديمة بعد عودة الرواد.

03:58 / 23:50






جامعة الشارقة
UNIVERSITY OF SHARJAH

تحت رعاية وحضور
أ.د. حميد مجول النعيمي
مدير جامعة الشارقة

أ.د. معمر بالطيب
نائب مدير الجامعة لشؤون البحث
العلمي والدراسات العليا

تتشرف كلية الدراسات العليا
بدعوتكم لحضور **اليوم المفتوح** لكلية الدراسات العليا.

**نستقبل في هذا اليوم أعزائنا طلبة البكالوريوس والدراسات
العليا والجمهور المهتمين باستكمال دراساتهم العليا.**

السبت 18 مارس 2023 | من 10 صباحا وحتى 5 مساءً

مبنى كلية الدراسات العليا M3-A

**خصم 50% على رسوم التقديم عند الحضور والتسجيل بالجامعة خلال
فترة اليوم المفتوح.**

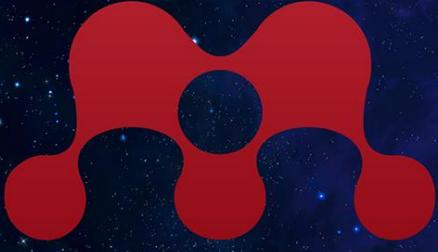












MENDELEY

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UNIVERSITY OF SHARJAH

أكاديمية الشارقة
لعلوم وتكنولوجيا الفضاء والفلك
SHARJAH ACADEMY FOR ASTRONOMY, SPACE
SCIENCES AND TECHNOLOGY

Invitation | دعوة

بالتعاون مع قسم الشؤون الأكاديمية في أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك
تشرف كلية الدراسات العليا بدعوتكم لحضور ورشة العمل الافتراضية تحت عنوان

اعداد الرسائل الجامعية واستخدام محرر المراجع مندلي

الأستاذ الدكتور مشهور الوردات
أساتذة الجزيء الفلكية ومدير الشؤون الأكاديمية في أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك

16:00 الساعة
الأربعاء 8 مارس 2023 التاريخ

عبر برنامج تيمز
العربية اللغة

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لعلوم وتكنولوجيا الفضاء والفلك
SHARJAH ACADEMY FOR ASTRONOMY, SPACE
SCIENCES AND TECHNOLOGY

Invitation | دعوة

تشرف أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك بدعوتكم للمشاركة في ورشة عمل
Sharjah Academy for Astronomy, Space Sciences and Technology cordially invites you to a workshop

Specialized Workshop

By SAASST - UoS

الارصاد الفوتومترية للعناقيد النجمية في مرصد الشارقة البصري Photometry of Stellar Clusters at Sharjah Optical Observatory

From Wed. 21st to Fri. 23rd Dec. 2022

On Site SAASST - Conference Room English

سيتم منح شهادة حضور لجميع المشاركين
A certificate of attendance will be given to all participants

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بمشاركة عدد من الخبراء والباحثين

ورشة عمل حول الأرصاد الفوتومترية للعناقيد النجمية تنظمها أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك

بمشاركة عدد من الخبراء والباحثين والطلبة من مختلف دول العالم، وخلال الحفلات الفلكية لورشة تحت إشراف الأستاذ الدكتور مشهور العوات، أستاذ الفيزياء الفلكية في قسم الفيزياء التطبيقية وعلم الفلك بجامعة الشارقة حول مرصد الشارقة العمري والجود الفلكية التي تم نشرها، كما قدم عرض حول حساب الألف الفوتومترية من الأطوال، وطرق الأستاد الدكتور سيد نجيم الحسين أستاذ الفيزياء الفلكية بجامعة مولانا آزاد الوطنية الأوردية في الهند، إلى تعريف القياس الضوئي وتقال الأرصاء الفلكية BANZAI، والحركة الديناميكية للعناقيد النجمية. بينما تحدثت الدكتورة بريا حسن أستاذ الفيزياء المساعد بجامعة مولانا حول

من متعلق حرم أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك التابعة لجامعة الشارقة على نشر الثقافة العلمية الفلكية. نظم مرصد الشارقة العمري والأكاديمية ورشة عمل حول الأرصاد الفوتومترية للعناقيد النجمية والتي تضمنت محاضرات وتطبيقات عملية على مدار ثلاثة أيام بهدف تزويد الطلبة وعلماء الفلك والفيزياء الفلكية بالمعرفة اللازمة والمهارات الأساسية في مجال القياس الضوئي للجموع النجمية. بينما الخارجية من خلال استخدام تلسكوبات عالية الجودة خاصة بالمرصد الفلكي

مرصد "آس كوبرنيكس" وأقيمت عرضاً حول العناقيد النجمية. ودانقش الدكتور الطوبوس مامونكيس أستاذ الفيزياء الفلكية المساعد في قسم الفيزياء التطبيقية وعلم الفلك في جامعة الشارقة حول كيفية التخطيط للورشة الفلكية والهندسة وإنجاز الكيفية الحالية باستخدام في الفيزياء الفلكية مرصداً حول خصائص العناقيد النجمية، بينما تطرقت الدكتور ريدا أحمد أستاذ الفيزياء الفلكية المشارك في كلية الآداب والعلوم في الجامعة الأمريكية في الشارقة إلى مقارنة النتائج من CMDs ينتج من أشباه عناقيد من العناقيد النجمية، أما الأستاد محمد ملاحفة المرصد الفلكي بمرصد الشارقة العمري فقد تحدث حول كيفية استخدام

المرصد في رصد العناقيد النجمية، وتحدث الأستاد عمار عيسى مساعد باحث بالأكاديمية حول دورة حياة النجوم وعوامل تطورها على محيط هرتزسبرونغ وراسل (Hertzsprung Russell diagram) كما تم تنظيم مجموعة من ورش عمل تطبيقية للورشة الفلكية واستخدام التلسكوبات بمرصد الشارقة لرصد العناقيد النجمية، وشكل المشاركين من طلب الأرصاء الفلكية عن بعد من تلسكوبات مرصد "آس كوبرنيكس" المنتشرة حول العالم، وفي نهاية اليوم الثالث تم تكريم المتحدثين والطلبة من قبل الأستاد الدكتور نور ثلث سعيد كلية العلوم بجامعة الشارقة تقديراً لجهودهم وساهمتهم في نجاح الورشة.





QUWA

Sustaining Women's Empowerment in Research & Innovation

Wednesday, August 30, 2023, 10:00 AM to 4:00 PM
Coinciding with Emirati Women's Day



QUWA: *Q:* Qualified *U:* Unique *W:* Working Hard *A:* Ambitious

CALL FOR PARTICIPATION

Seize the opportunity to showcase your research skills and be recognized for your hard work toward fostering women's empowerment in research and innovation. Submit your work now to the Fourth Forum for Women in Research and let your efforts shine!

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- Community Impact
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31/8/2023
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Website

Forum Committee Members

Honorary Chair
Professor Hamid M.K. Al Naimiy, Chancellor of the University of Sharjah
Prof. Maamar Bettayeb, Vice Chancellor for Research & Graduate Studies

Forum Chairs
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Dr. Bashair Moussa, College of Medicine (Co-Chair)

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Dr. Aseel Ali Hussien, College of Engineering
Dr. Fatma Refaat Ahmed, College of Health Sciences

Strategic Partner



Golden Partners



Medical Partners



Entrepreneurship Partner









Pictures









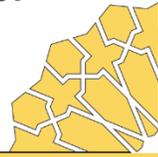
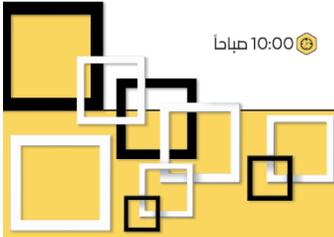




معرض الصور الفوتوغرافية لمسيرة كلية العلوم خلال ربع قرن

PHOTOGRAPHIC GALLERY OF THE COLLEGE OF SCIENCES JOURNEY OVER 25 YEARS

الثلاثاء 14 مارس 2023 (مبنى كلية العلوم, M7) 10:00 صباحاً



كلية العلوم
COLLEGE OF SCIENCES





University of Sharjah is at University of Sharjah.

May 3 at 9:57 AM · Sharjah · 🌐

بهدف تعريف طلبة برنامج بكالوريوس علوم الأرض البترولية والاستشعار عن بعد بمختلف المسارات الوظيفية المستقبلية لهم، نظمت الجمعية الطلابية للمنظمة الأوروبية للجيولوجيين والمهندسين (EAGE) بكلية العلوم ندوة حول الفرص الوظيفية للجيولوجيين، استضافت خلالها عدد من المتحدثين المتخصصين في مجال علوم الكواكب وصناعة البترول والتعدين والجيولوجيا والهندسة، واختتمت الندوة بالرد على أسئلة واستفسارات الطلبة.

معاً نطعم الفرق
MAKING A DIFFERENCE TOGETHER





University of Sharjah is at University of Sharjah.

April 26 at 2:28 PM · Sharjah ·

برعاية سمو الشيخ سلطان بن أحمد القاسمي نائب حاكم الشارقة رئيس الجامعة، بدء الجلسات العلمية لمؤتمر الشارقة الدولي في فيزياء المواد المتقدمة بجامعة الشارقة في يومه الأول، والتي تضمنت عقد جلستين نقاشيتين، بالإضافة إلى 6 جلسات بحثية متوازية، تناولت عدد من الموضوعات منها استخدامات المواد المتقدمة وتطبيقاتها في مجالات الصناعات الحديثة ومعالجة المياه والصحة العامة.







WORKSHOP ON ARTIFICIAL INTELLIGENCE

The workshop will introduce the basics of AI and its applications. During the workshop, you will learn about the different types of AI and machine learning algorithms and the future of this technology. It will be an excellent opportunity to learn more about AI and its potential impact on your field.

Mentor: Zeyad Ahmad, from the computing college
Monday, February 20, from 11 am to 1 pm in meeting room M7-221







ورشة "شهر رمضان المبارك" 1444 هـ

المحاضرة 1:

"هلال رمضان في ضوء الحديث النبوي الشريف"
المحاضر: أ.د. عبد السميع الأنيس - جامعة الشارقة

المحاضرة 2:

"حل مشكلة الهلال هو التقويم الإسلامي"
المحاضر: أ.د. جمال قسوم - الجامعة الأمريكية بالشارقة



دعوة | Invitation

تتشرف
أكاديمية الشارقة
لعلوم وتكنولوجيا الفضاء
والفلك بالتعاون مع
قسم الفيزياء التطبيقية والفلك
(جامعة الشارقة)
وقسم أصول الدين (جامعة الشارقة)
ب دعوتكم



Wednesday
15 March 2023



12:00^{pm} - 02:00^{pm}
Arabic



SAASST
Conference Room

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+971 6 51 66 166

www.SAASST.ae

follow us
f t i y

CONGRATULATIONS TO OUR STUDENT FATIMA MOHAMED HASHIL MOHAMED ALKHATERI

- Chair's welcome
- Graduate Career Opportunities
- SAAS
- AM
- Testimonials

Congratulation to our student Fatima Mohamed Hashil Mohamed Alkhateri to be the first student getting an M.Sc. in Astratonomy and Space sciences from the UOS.



CONDUCTED WORKSHOP ON CAA ACCREDITATION FILE PREPARATION

M7-Meeting Room | 8 DEC 2022 | 3 PM

Prof. Essam Agamy Vice Chancellor for Institutional Effectiveness and Accreditation and his team held a workshop on CAA accreditation file preparation















رحلات الفضاء.. ومفاجآتها على مستوى العلوم

علوم الارض تنتظر من الفضاء الكثير من المفاجآت.. والحماسة لاكتشاف عالم الفضاء الساحر يضع العلم في اعلی جهودية لتعديل وتصحيح نظريات قد تصبح قديمة بعد عودة الرواد.

03:58 / 23:50






جامعة الشارقة
UNIVERSITY OF SHARJAH

تحت رعاية وحضور
أ.د. حميد مجول النعيمي
مدير جامعة الشارقة

أ.د. معمر بالطيب
نائب مدير الجامعة لشؤون البحث
العلمي والدراسات العليا

تتشرف كلية الدراسات العليا
بدعوتكم لحضور **اليوم المفتوح** لكلية الدراسات العليا.

**نستقبل في هذا اليوم أعزائنا طلبة البكالوريوس والدراسات
العليا والجمهور المهتمين باستكمال دراساتهم العليا.**

السبت 18 مارس 2023 | من 10 صباحا وحتى 5 مساءً

مبنى كلية الدراسات العليا M3-A

**خصم 50% على رسوم التقديم عند الحضور والتسجيل بالجامعة خلال
فترة اليوم المفتوح.**

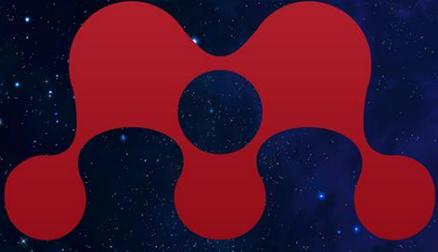












MENDELEY

جامعة الشارقة
UNIVERSITY OF SHARJAH

أكاديمية الشارقة
لعلوم وتكنولوجيا الفضاء والفلك
SHARJAH ACADEMY FOR ASTRONOMY, SPACE
SCIENCES AND TECHNOLOGY

Invitation | دعوة

بالتعاون مع قسم الشؤون الأكاديمية في أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك
تشرف كلية الدراسات العليا بدعوتكم لحضور ورشة العمل الافتراضية تحت عنوان

اعداد الرسائل الجامعية واستخدام محرر المراجع مندلبي

الأستاذ الدكتور مشهور الوردات
أساتذة الفيزياء الفلكية ومدير الشؤون الأكاديمية في أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك

16:00 الساعة
الأربعاء 8 مارس 2023 التاريخ

عبر برنامج تيمز
العربية اللغة

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جامعة الشارقة
UNIVERSITY OF SHARJAH

أكاديمية الشارقة
لعلوم وتكنولوجيا الفضاء والفلك
SHARJAH ACADEMY FOR ASTRONOMY, SPACE
SCIENCES AND TECHNOLOGY

Invitation | دعوة

تشرف أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك بدعوتكم للمشاركة في ورشة عمل
Sharjah Academy for Astronomy, Space Sciences and Technology cordially invites you to a workshop

Specialized Workshop

By SAASST - UoS

الارصاد الفوتومترية للعناقيد النجمية في مرصد الشارقة البصري Photometry of Stellar Clusters at Sharjah Optical Observatory

From Wed. 21st to Fri. 23rd Dec. 2022

On Site SAASST - Conference Room English

سيتم منح شهادة حضور لجميع المشاركين
A certificate of attendance will be given to all participants

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+971 6 51 66 111

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بمشاركة عدد من الخبراء والباحثين

ورشة عمل حول الأرصاد الفوتومترية للعناقيد النجمية تنظمها أكاديمية الشارقة لعلوم وتكنولوجيا الفضاء والفلك

بمشاركة عدد من الخبراء والباحثين والطلبة من مختلف دول العالم، وخلال الحفلات الفلكية لورشة تحت إشراف الأستاذ الدكتور مشهور العوات، أستاذ الفيزياء الفلكية في قسم الفيزياء التطبيقية وعلم الفلك بجامعة الشارقة حول مرصد الشارقة العمري والجود الفلكية التي تم نشرها، كما قدم عرض حول حساب الأضواء الضوئية من الأضواء وطرق الأستاد الدكتور سيد نجيم الحسين أستاذ الفيزياء الفلكية بجامعة مولانا آزاد الوطنية الأوردية في الهند إلى تعريف القياس الضوئي وتقال الأرصاء الفلكية BANZAI، والحركة الديناميكية للعناقيد النجمية. بينما تحدثت الدكتورة بريا حسن أستاذ الفيزياء المساعد بجامعة مولانا حول

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المرصد في رصد العناقيد النجمية وتحدث الأستاد عمار عيسى مساعد باحث بالأكاديمية حول بوردة التجموع وعوامل تطورها على محيط هرتزسبرونغ وراسل (Hertzsprung Russell diagram) كما تم تنظيم مجموعة من ورش عمل تطبيقية للورشة الفلكية والتطبيقات للطلاب من قبل الأرصاء الفلكية عن بعد من تسويات مرصد "آس كوبرنيكس" المنتشرة حول العالم، وفي نهاية اليوم الثالث تم تكريم المتحدثين والطلبة من قبل الأستاد الدكتور نور ثلث سعيد كلية العلوم بجامعة الشارقة تقديراً لجهودهم وساهمتهم في النجاح الورشة.





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