



UNIVERSITY OF SHARJAH

**COLLEGE OF
SCIENCES**

ANNUAL REPORT

2021-2022

Introduction

Established in 2008, when the College of Arts and Sciences were split into two separate colleges, the College of Sciences (COS) at the University of Sharjah (UoS) consists of 4 departments, after the department of computer science joined the College of Computing and Informatics. The college of sciences offer Bachelor 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 collage is planning to open more postgraduate programs in applied biology, chemistry mathematics and Applied Physics. In addition, the College offers service courses to a large number of 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 fall and spring of 2021/2022.

The College also strives to elevate the standards of academic research in various advanced areas of research, teaching and learning. As it will be 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

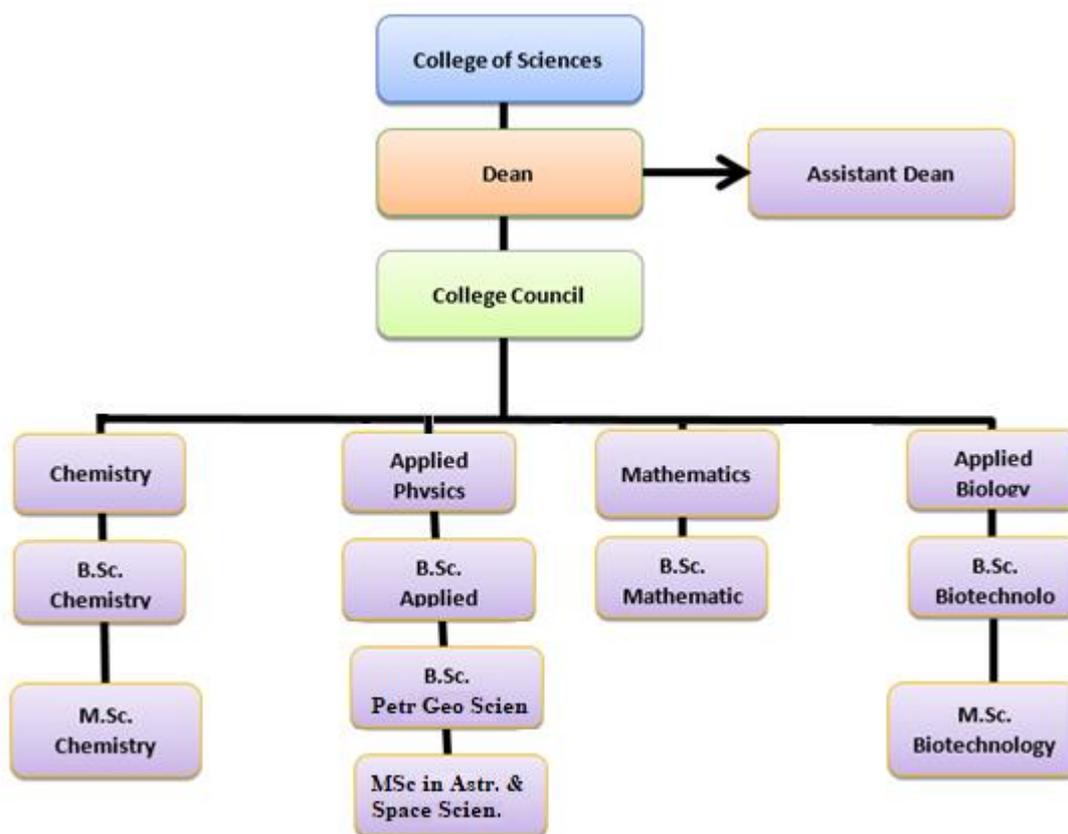
College Vision:

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
	University Committee for Innovation <i>Chair: Dr. Talal Bonny</i> <i>Members: Dr. Manar Abu Taleb, Dr. Alaa' ALTaweel, Dr. Mohammad Al-Shabi, Dr. Sohaib Majzoub, Dr. Sunaina Yadadi, Dr. Sameh Soliman, Dr. Narjes Salem, Dr. Ala'a Abdulhadi, Eng. Marta Bialko, Racha Al-Khoury (DAB), Ms. Asil AlBaghdadi, Mr. Salah Abdulrazak</i>
2.	The Sharjah International Conference on Education in Post COVID-19 Organizing Committee

	<p>Chair: <i>Dr. Hussein Al Mahdi</i></p> <p>Members: <i>Ms. Fatima Sajwani, Dr. Ihsan Shehadeh, Dr. Nadia Farahat, Dr. Shareefah Al-Marzouqi, Ms. Anissa Bettayeb, Ms. Kawthar Meslem, Mr. Bassam Khader, Mrs. Nawal Nayfeh, Ms. Kifah Taqaz, Ms. Khadijah AlHousani, Ms. Nemat Dek Al Bab, Ms. Batoul Karzoun, Mrs. Taghreed Abdullah, Mrs. Mariam Al-Naqbi, Mrs. Racha Al-Khoury (DAB), Mr. Omar Odwan</i></p>
3.	<p>Study Plan and Curriculum Committee</p> <p>Chair:</p> <p>Members: <i>Prof. Elsiddig Elsheikh (DAB)</i></p>
4.	<p>Student Affairs Committee</p> <p>Chair:</p> <p>Members: <i>Dr. Kareem Mosa (DAB)</i></p>
5.	<p>Faculty members Housing Committee</p> <p>Chair: Dr. Ayssar Nahle</p> <p>Members: <i>Dr. Hassen Hadj Kacem (DAB)</i></p>
6.	<p>Agriculture Sustainability Circle</p> <p>Chair:</p> <p>Members: <i>Ali El-Keblawy (DAB)</i></p>
7.	<p>Lab Safety Committee</p> <p>Chair: <i>Mahmoud Abu Shammeh</i></p> <p>Members: <i>Dr. Ban Al-Joubori (DAB), Dr Abdelaziz Elgamouz (Chem)</i></p>
8.	<p>MSc in environmental Sciences & Engineering Committee</p> <p>Chair: Dr Mohamed Abdalla</p>

	<i>Members: Dr. Lucy Semerjian; Prof. Ali Ali El-Keblawy; Prof. Ghazi Gaseem Khaleel Al-Khateeb; Dr. Tarek Merabtene; Dr. Sourjya (Shorjo) Bhattacharjee.</i>
9.	<i>Women in Research Committee</i> <i>Members: Dr. Mahreen Arooj Member,</i>

COLLEGE AND DEPARTMENT COMMITTEES

College Committees	
1.	<i>Strategic Planning and Annual Report committee</i> <i>Chair: Dr. Mostafa Zahri (DM)</i> <i>Members: Dr. Abdelaziz Elgamouz (DC), Dr. Ban Al-Joubori (DAB), Mrs. Racha Al Khoury (DAB), Ms. Batoul Karzoun</i>
2.	<i>Curriculum, Accreditation and Academic Strategy Committee</i> <i>Chair: Dr Gehad Sadiq</i> <i>Members: Dr. Mona Hassuneh (DAB), Dr Abdelaziz Elgamouz (Chem), Dr Mohammad Ghalib AL Akhrass (maths)</i>
3.	<i>Examination & Scheduling Committee</i> <i>Chair: Dr. Muhammad Islam Shafiq Mustafa</i>

	<p>Members: Dr Muhammad Nasir Khan (DAB), Mrs Azeera Abdul Rahim (chem), Mr Omar Adwan (Phys)</p>
4.	<p>Student Success and Academic Advising committee Chair: Prof Bassem Atilli Members: Dr. Kareem Mosa (DAB)</p>
5.	<p>Scientific Research Committee Chair: Dr Belkacem Said-Houari Members: Dr. Ayssar Nahle (Chem), Dr. Mohammed Elnaggar (Chem), Dr Yssir Abdu (Phys), Dr. Kais Daoudi (Phys), Dr Zahir Raza (Maths), Dr Kareem Mosa (DAB)</p>
6.	<p>Skills and Competencies Committee Chair: Prof. Elsiddig Elsheikh (DAB) Members: Prof Abdelnasser Kawde (Chem)</p>
7.	<p>Science Multidisciplinary Programs committee Chair: Dr. Hassen Hadj Kacem (DAB) Members: Dr Mohammed El-Naggar (Chem), Dr Rachik Soualah, Dr. Aziz Takhirov (Maths)</p>
8.	<p>Website Committee Chair: Antonios Manousakis (DAPA) Members: Dr Marwan Al-Momani, Mrs. Uzma Inayat (DAB), Ms Ayesha Mohamed (DC), Ms. Batoul Karzoun</p>
9.	<p>Social Support Committee Chair: Mrs. Nawal Nayfeh Mrs. Kholoud Mustafa, Ms. Islam Eltayeb (DAB), Nawal Nayfeh (DAPA), Mrs Mona Kanj</p>
10.	<p>Distance Learning and Assessment Methods Committee Chair: Prof Abdelnasser Kawde Members: Dr. Mohamed Ibrahim Farag (Phys), Mrs. Nida Siddiqui (Mths), Mrs. Uzma Inayat (DAB)</p>
11.	<p>Graduate Studies Committee Chair: Prof. Ali El-Keblawy (DAB) Members: Dr Abdelaziz Elgamouz (Chem), Prof Amine Hareish (Phys), Prof Salim Elmasoudi (maths), Dr Abdelaziz Tlili (DAB)</p>
12.	<p>Program Effectiveness and Accreditation Committee Chair: Prof Ali Jaballah (Maths)</p>

	Members: Prof. Elsiddig Elsheikh (DAB), Prof Abdelnasser Kawde (Chem), Dr Gehad Sadiek (Phys)
13.	Laboratory Safety & Equipment Committee Chair: Hussien Al-Awadhi (Physics) Members: Mrs. Azeera Abdul Rahim (DC), Dr. Mona Hassuneh (DAB)
14.	Community Outreach Committee Chair: Members: Dr. Abdullah Al Mutery (DAB),
	Students' behavior committee Chair: Prof Raed Alqwasmeh Members: Prof Ihsan Mahsneh, Dr Feras Ghanim, Mr. Mohamed Hamzah
Special Committees (Adhoc)	
15.	College Expo 2020 Visits Organizing Committee Chair: Mr. Mohammed Mansour Members: Dr. Kareem Mosa (DAB), Mrs. Islam Eltayeb (DAB)
16.	College 50th National Day Celebration Committee Chair: Mrs. Saja Abdelhadi Members: Mrs. Tahani El Sarayreh, Mrs. Nidaa Siddiqi, Mrs. Azeera Abdel Rahim, Mrs. Racha Al-Khoury (DAB)
17.	College K12- Science Program Chair: Prof. Nouar Tabet Members: Dr. Firas Ghanim Ahmed, Dr. Nezar Atalla Hammouri, Mr. Bassam Rashed, Mr. Mohammed Mansour, Dr. Raed Abdallah AL Qawasmeh, Dr. Monther Abdeljabbar Khanfar, Ms. Tasneem Obaid (DAB)
18.	12th UOS Open Day Committee Chair: Mr. Mohammed Mansour Members: Dr. Abdul Raheem Khudada Al Zubaidy, Mrs. Kholoud Mustafa Abu Rezaq, Mrs. Mona Kanj, Ms. Tasneem Obaid (DAB)
	Committee for Islamic Bank of Sharjah Price and Encouragement Chair: Prof Salim Elmasoudi Members: Prof Ataa Elmanan, Prof Mady Elbahri, Dr Abdelaziz Etlili

Departmental Committees

Department of Applied Biology	
1.	<p>Curriculum & Accreditation Committee <i>Chair: Prof. Elsiddig Elsheikh</i> <i>Members: Prof. Ihsan Mahasneh, Prof. Ali El-Keblawy, Prof. Ismail Saadoun, Dr. Mona Hassuneh, Dr. Hassen Hadj kacem, Dr. Abdelaziz Tlili, Dr. Amir Khan</i></p>
2.	<p>Lab safety and Laboratory Equipment <i>Chair: Dr. Mona R Hassuneh</i> <i>Members: Dr Muhammad Nasir Khan, Dr. Hassen Hadjkacem, Dr. Khalid Bajou, Dr. M. Nasir Khan, Dr. Ban Al-Joubori, Ms. Tasneem Obaid, Mrs. Mona Ibrahim, Mrs. Mona Al-Ali, Ms. Aisha Ehtibi, Ms. Mona Mahfoud, Ms. Maryam Ghaleb</i></p>
3.	<p>Teaching Load and Exam Schedules <i>Chair: Dr. Muhammad Nasir Khan</i> <i>Members: Uzma Inayat, Racha Al-Khoury, Islam ElTayeb</i></p>
4.	<p>Budget Committee <i>Chair: Dr. Kareem Mosa</i> <i>Members: Prof. Ali El-Keblawy, Dr. Khalid Bajou, Dr. Abdullah Al Mutery, Dr. Ban Al-Joubori</i></p>
5.	<p>Post Graduate Committee <i>Chair: Ali El-Keblawy</i> <i>Member: Prof. Elsiddig Ahmed ElSheikh , Prof. Ihsan Mahasneh, Dr. Hassan Hadjkacem, Dr. Mona Hassuneh, Dr Muhammad Nasir Khan, Dr. Nasir Khan</i></p>
6.	<p>Conferences and Seminars Committee <i>Chair: Dr. Hassan Hadj Kacem</i> <i>Members: Prof, Ali El-Keblawi, Dr. Amir Khan, Dr. Khalid Bajou, Dr Muhammad Nasir Khan, Dr. Abdullah AlMutery, Racha Al-Khoury</i></p>
7.	<p>Student's Advising and Training <i>Chair: Dr. Kareem Mosa</i> <i>Member: Dr. Khalid Bajou, Dr. Abdelaziz Tlili, Dr. Mona Hassuneh, Dr. Amir Khan, Dr. Abdullah AL Mutery</i></p>
8.	<p>Annual Report and strategic plan Committee <i>Chair: Dr. Ban Al-Joubori</i> <i>Members: Uzma Inayat, Racha Al-Khoury, Tasneem Obaid, Islam El Tayeb</i></p>

9.	Students, Social Affairs and Website Committee <i>Chair: Mrs. Islam El Tayeb</i> <i>Member: Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid , Uzma Inayat</i>
10.	Recruitment Committee <i>Chair: Prof. Ismail Saadoun</i> <i>Members: Prof. Elsiddig Elsheikh, Prof. Ihsan Mahasneh, Prof. Ali El-Keblawiy member, Dr. Mona Hassuneh, member, Dr Abdullah Al Mutery</i>
11.	Ad Hoc Committee: 12th BSE <i>Chair: Dr. Ban Al-Joubori</i> <i>Members: Racha Al-Khoury, Uzma Inayat, Tasneem Obaid, Islam ElTayeb, Mariam Saho</i>
12.	Ad hoc: Biotechnology Student Exhibition <i>Chair: Dr. Ban Al-Joubori</i> <i>Members: Mrs. Racha Al-Khoury, Ms. Tasneem Obaid, Mrs. Uzma Inayat, Mrs. Islam El-Tayeb</i>

Department of chemistry	
1.	Quality Assurance, Curriculum & Accreditation Committee <i>Chair: Prof. Raed Al Qawasmeh</i> <i>Members: Prof. Ideisan Abu-Abdoun</i> <i>Dr. Ahmad Al-Mahdi</i> <i>Dr. Abdelaziz Elgamouz</i> <i>Dr. Kamrul Hasan</i> <i>Dr. Mahreen Arooj</i>
2.	Chemistry safety and Laboratory Equipment <i>Chair: Dr. Mohammad El-Naggar</i> <i>Members: All Academic & Mr. Mohamad Al-Farouk Miss Reem Al-Teneiji</i>
3.	Course Scheduling and Examination

	<p><i>Committee Chair: Dr. Mahreen Arooj</i></p> <p><i>Members: Mr. Ibrahim Abdel-Rahman</i></p> <p><i>Ms. Aisha Mohammed</i></p> <p><i>Mrs. Kifah Al-Taqaz</i></p> <p><i>Mr. Amin Hasan Botmah</i></p>
4.	<p>Community Services, Outreach and Social Committees</p> <p><i>Chair: Prof. Ideisan Abu-Abdoun</i></p> <p><i>Members: Dr. Mohammad El-Naggar Dr. Abdelaziz Elgamouz Dr. Mahreen Arooj, Mrs. Mona Kanj, Mrs. Azeera Abdul Rahim</i></p>
5.	<p>Scientific Research Committee</p> <p><i>Chair: Dr. Kamrul Hasan</i></p> <p><i>Members: Dr. Mohammad El-Naggar Dr. Abdelaziz Elgamouz</i></p> <p><i>Dr. Mahreen Arooj</i></p>
6.	<p>Seminar Committee</p> <p><i>Chair: Dr. Abdelaziz Elgamouz</i></p> <p><i>Members: Ms. Aisha Mohammed</i></p>
7.	<p>Teaching and Scheduling</p> <p><i>Chair: Mrs. Nemat Dek Al-Bab</i></p> <p><i>Members: Mr. Amin Hasan Botmah</i></p>
8.	<p>Chemistry Website Committee</p> <p><i>Chair: Mrs. Azeera Abdul Rahim</i></p> <p><i>Members: Mr. Ibrahim Abdel-Rahman</i></p> <p><i>Mrs. Mona Kanj</i></p>

	<p><i>Ms. Aisha Mohammed</i></p> <p><i>Miss Reem Al-Teneiji</i></p>
9.	<p>Mentoring and training Committee,</p> <p><i>Chair:</i></p> <p><i>Member:</i></p>
10.	<p>Editorial Board for CAM magazine</p> <p><i>Chair: Dr. Ayssar Nahlé</i></p> <p><i>Members: All Ph.D. holder are members in the editorial board & Mrs. Azeera Abdul Rahim</i></p>
11.	<p>Social Support Committee</p> <p><i>Chair: Mrs. Muna Hassan</i></p> <p><i>Members: Mr. Mohamad Al-Farouk Mr. Ali Al-Samarrai</i></p> <p><i>Miss Hajar Ibrahim</i></p> <p><i>Miss Reem Al-Teneiji</i></p>
12.	<p>Annual Report Committee</p> <p><i>Chair: Annual Report and Strategic planning</i></p> <p><i>Members: Dr. Ahmed Ali</i></p> <p><i>Mrs. Mona Kanj</i></p> <p><i>Mrs. Azeera Abdul Rahim</i></p>
13.	<p>Student Association Committee (Students Chemical Society)</p> <p><i>Chair: Dr. Ahmad Al-Mahdi</i></p>

	<p><i>Member: Ms. Aisha Mohammed</i></p> <p><i>Miss Hajar Ibrahim</i></p> <p><i>Miss Reem Al-Teneiji</i></p>
14.	<p>Career and Graduate Students' advising committee</p> <p><i>Chair: Dr. Mohammad El-Naggar</i></p> <p><i>Member: Dr. Ahmad Al-Mahdi</i></p> <p><i>Mrs. Mona Kanj</i></p> <p><i>Ms. Aisha Mohammed</i></p> <p><i>Mrs. Muna Hassan</i></p>
15.	<p>Postgraduates Study committee</p> <p><i>Chair: Prof. Raed Al Qawasmeh</i></p> <p><i>Member: Dr. Ayssar Nahlé</i></p> <p><i>Dr. Ihsan Shehadi</i></p> <p><i>Dr. Ahmad Almehdi</i></p> <p><i>Dr. Abdelaziz Elgamouz</i></p> <p><i>Dr. Mahreen Arooj</i></p> <p><i>Prof. Monther Khanfar</i></p>
16.	<p>General Chemistry (1) coordination committee-Fall</p> <p><i>Chair: Dr. Ahmad Ali</i></p> <p><i>Member:</i></p>
17.	<p>General Chemistry (1) Lab coordination committee-Fall</p> <p><i>Chair: Dr. Abdelaziz Elgamouz</i></p>

	<i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman and Mrs. Azeera Abdul Rahim</i>
18.	Gen. Chem. (HS) Lab coordination committee-Fall <i>Chair: Dr. Kamrul Hasan</i> <i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman, Ms. Aisha Mohammed and Mrs. Azeera Abdul Rahim</i>
19.	Gen. Chem. (HS) coordination committee-Fall <i>Chair: Dr. Mahreen Arooj</i> <i>Members:</i>
20.	Org. Chem. (HS) coordination committee-Fall <i>Chair: Prof. Ideisan Abu-Abdoun</i> <i>Member: Mrs. Azeera Abdul Rahim</i>
21.	Gen. Chem. (1) (MS) coordination committee-Fall <i>Chair: Dr. Mohammad El-Naggar</i> <i>Members: Dr Ahmed Almehdi, Prof. Ideissan Abu Abdoun</i>
22.	General Chemistry (1) coordination committee-Spring <i>Chair: Dr. Ahmad Ali</i> <i>Member: Dr Kamrul Hasan, Prof. Monther Khanfar, Dr Aysar Nahle</i>
23.	General Chemistry (1) Lab coordination committee-Spring <i>Chair: Dr. Kamrul Hasan</i> <i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman, Ms. Aisha Mohammed and Mrs. Azeera Abdul Rahim</i>

24.	<p>Gen. Chem. (HS) Lab coordination committee-Spring <i>Chair: Dr. Mahreen Arooj</i></p> <p><i>Member: Mrs Azeera Abduld Rahim, Mr. Ibrahim Abdulrahman, Ms Ayesha, Begum, Mrs. Mona Kanje</i></p>
25.	<p>Gen. Chem. (HS) coordination committee-Spring <i>Chair: Dr. Mahreen Arooj</i></p> <p><i>Member: Mrs Azeera Abduld Rahim, Mr. Ibrahim Abdulrahman, Ms Ayesha, Begum, Mrs. Mona Kanje</i></p>
26.	<p>Org. Chem. (HS) coordination committee-Spring <i>Chair: Prof. Ideisan Abu-Abdoun</i></p> <p><i>Member: Dr Mohamed Elnaggar</i></p>
27.	<p>Gen. Chem. (1) (MS) coordination committee-Spring <i>Chair: Dr. Mohammad El-Naggar</i></p> <p><i>Members: Prof Ideissan Abu Abdoun</i></p>
28.	<p>Gen. Chem. (2) (MS) coordination committee-Spring <i>Chair: Dr. Ahmed Almehdi</i></p> <p><i>Members: Dr Wassim,</i></p>
29.	<p>Gen. Chem (MS) Lab coordination committee-Spring <i>Chair: Dr. Abdelaziz Elgamouz</i></p> <p><i>Members: Mrs. Mona Kanj, Mr Ibrahim Abdelrahman and Mrs. Azeera Abdul Rahim</i></p>

Department of Mathematis	
1.	Student Affairs and tutorial Committee <ul style="list-style-type: none"> • Dr. Mohammed Al-Akhrass • Prof. Basem Attili
2.	Curriculum Committee <ul style="list-style-type: none"> • Prof. Ali Jaballah • Dr. Hishyar Abdullah • Dr. Mohammed Al Akhrass • Kholoud Mustafa • Mrs. Nida Siddiqui
3.	Examinations Committee <ul style="list-style-type: none"> • Dr. Muhammad Islam • Mrs. Nida Siddiqui
4.	Teaching Schedule Committee <ul style="list-style-type: none"> • Dr. Mohammad Bataineh • Mrs. Kholoud Mustafa • Dr. Mohammed Al-Akhrass
5.	Community Service and Social Committee <ul style="list-style-type: none"> • Mrs. Kholoud Mustafa • Dr. Mohammad Bataineh • Dr. Zahid Raza
6.	Scientific Research and Seminar Committee <ul style="list-style-type: none"> • Dr. Belkacem Said-Houari • Prof. Salim Messaoudi • Dr. Muhammad Islam • Dr. Firas Ghanim • Dr. Zahid Raza
7.	Employment Committee <ul style="list-style-type: none"> • Prof. Basem Attili • Prof. Salim Messaoudi • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane • Dr. Mohammad Bataineh

	<ul style="list-style-type: none"> • Dr. Belkacem Said-Houari • Dr. Zahid Raza
8.	Accreditation and Academic Plans <ul style="list-style-type: none"> • All members of the department
9.	Placement Test Committee <ul style="list-style-type: none"> • Dr. Mahmoud BenKhalefa • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane
10.	Student Advising Committee <ul style="list-style-type: none"> • Dr. Hishyar Abdullah • Dr. Mahmoud Benkhalefa • Dr. Mohammad Bataineh
11.	Annual report Committee <ul style="list-style-type: none"> • Dr. Firas Ghanim • Dr. Muhammad Islam
12.	Conference and workshop Committee <ul style="list-style-type: none"> • Prof. Salim Messaoudi • Prof. Abdelaziz Soufyane • Dr. Mahmoud Benkhalefa • Dr. Belkacem Said-Houari • Prof. Basem Attili • Dr. Zahid Raza • Prof. Ali Jaballah • Dr. Mohammed Al-Akhrass
13.	Program Assessment Report Committee <ul style="list-style-type: none"> • Prof. Ali Jaballah
14.	Departments Website and software Committee <ul style="list-style-type: none"> • Mrs. Nida Siddiqui
15.	Internship and Training Committee <ul style="list-style-type: none"> • Prof. Khalil Al Dosary • Dr. Mostafa Zahri
16.	Library, Computing Resources, and Educational Technology Tools Committee.

	<ul style="list-style-type: none"> • Dr. Firas Ghanim • Dr. Mahmoud Benkhalefa • Dr. Hishyar Abdullah
17.	Council secretary Dr. Mohammad Bataineh
18.	Department representative in college council <ul style="list-style-type: none"> • Prof. Salim Messaoudi
19.	MSc. Program Committee <ul style="list-style-type: none"> • Dr. Firas Ghanim • Prof. Salim Messaoudi • Prof. Abdelaziz Soufyane • Prof. Basem Attili • Dr. Mohammad Bataineh

Department of Applied Physics and Astronomy	
1.	<p>Quality Assurance, Curriculum & Accreditation Committee</p> <p><i>Chair:</i> Dr. Gehad Sadiek</p> <p><i>Members:</i> Dr. Rachik Soualah, Dr. Antonios Manousakis, Dr. Muhammad Azeem Prof. Mashoor Alwardat, Dr Hafsa Khurshid, Prof. Hichem Eleuch</p>
2.	<p>Library, Computing Resources, and Educational Technology Tools</p> <p><i>Chair:</i> Dr. Hussain Alawadhi</p> <p><i>Members:</i> Dr. Muhammad Azeem, Dr. Daniil Moraitis</p>
3.	<p>Course Scheduling and Examination</p> <p><i>Committee Chair:</i> Prof. Attaelmanan</p> <p><i>Members:</i> Dr. Rachik Soualah, Omar Adwan, Saja Abdulhadi</p>
4.	<p>Employment and Promotion</p> <p><i>Chair:</i> Ad Hoc</p> <p><i>Members:</i></p>
5.	<p>Community Outreach Committees</p> <p><i>Chair:</i> Dr. Hamdan Hamdan</p> <p><i>Members:</i> Bassam Rashed, Abdulraheem Khudada, Moh'd Mansour, Ms Saja Abdulhadi</p>
6.	<p>Scientific Research Committee</p> <p><i>Chair:</i> Dr Mounir Kaidi</p> <p><i>Members:</i> Prof. Bashir Suleiman, Dr. Kais Daoudi, Dr. Hachemi Benaoum, Dr Hafsa Khurshid, Dr. Yasir Abdu, Dr Daniil Moraitis</p>

7.	<p>Committee for “Teaching Laboratories</p> <p><i>Chair:</i> Prof. Attaelmanan</p> <p><i>Members:</i> Dr. Hussein Alawadhi, Dr Mounir Kaidi, Dr. Yasir Abdu, Dr. Hamdan Hamdan Mr. Mohammed Mansour, Mr. Bassam Rashid, Mrs. Nawal Nayfeh, Mr. Abdulraheem Khudada</p>
8.	<p>Department Website Committee</p> <p><i>Chair:</i> Dr. Antonios Manousakis</p> <p><i>Members:</i> Mr. Abdulraheem Khudada, Mr. Bento Josif, Ms. Mariam Rashid Al-naqbi</p>
9.	<p>Conferences and Symposia Committee</p> <p><i>Chair:</i> Prof. Bashir Suleiman</p> <p><i>Members:</i> Dr. Kais Daoudi, Dr. Mounir Kaidi, Prof Hichem Eleuch, Dr Yassir Abdu, Dr Oleg Olendski</p>
10.	<p>Social Support Committee</p> <p><i>Chair:</i> Mr. Bassam Rashed</p> <p><i>Members:</i> Nawal Nayfeh, Tahani Sarayreh, Mrs. Taghreed Abdullah, Mrs. Khadeja Alhosany, Mrs. Mariam Alnaqbi</p>
11.	<p>Department representative in college council</p> <p><i>Chair:</i> Dr. Gehad Sadiak</p> <p><i>Members:</i></p>
12.	<p>Council secretary</p> <p><i>Chair:</i> Mr. Mohammed Mansour</p> <p><i>Member:</i></p>

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	16	5	19	29	69	4.31
Applied Biology	17	7	18	11	53	3.1
Mathematics	18	1	10	21	50	2.7
Applied Physics	27	3	13	12	55	2.04
Total	78	12	56	74	220	Average 2.9375

*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

Evidence

Copies of the files and receipt by the DQAIEA

Strategic Plan Achievements

The College have fully utilized the local resources to produce high quality research output. Faculty members of the college have recruited and worked with **158** research grants of collective amount of **AED 5,319,000**

. The main funding agencies include **University of Sharjah (School of Graduate Studies and Scientific Research), Sharjah Academy of Sciences, Ministry of Education, Sandoq Al Watan, Abu Dhabi Sorbonne University, UAE Space Agency and MBRSC.**

As a direct result of conducting such high quality research, **267 research journals** were published in high quality peer evaluated international journals covering areas of applied and theoretical sciences from all disciplines within the College. Moreover, **one patent was granted and 4 research papers** were presented in international conferences and published in the corresponding conference proceedings.

The College of Science had fully utilized the IT infrastructure within the University. All courses offered with the College of science is using the BlackBoard suit for assessments and instructions. More courses are using the computer facilities within the University. Computer training and workshop were conducted during the year.

The College of Sciences had maintained a high level of contribution in different activities servicing the local, regional and international communities. Members of the COS were involved in conducting, organizing and fostering of more than **400 activities** directed towards different community during 2019-2020 academic year.

Key Performance Indicators	Direct/ Indirect KPI	Reporting Frequency
% Reduction in the number of students under academic probation.	IN	M
% on-time student graduation.	IN	M
Average number of students advising sessions.	D	M

% Reduction of student academic drop out.	IN	M
% Student Satisfaction (<i>College</i>).	IN	M
% of College students <i>actively</i> participating in college and community outreach activities.	D	M
% Employee Satisfaction.	IN	A
# Average hours of professional development (each year).	D	M
% Utilization of learning management system.	IN	M
# of <i>impactful</i> quality innovative activities, events or workshops.	D	M
Overall gross margin (<i>College</i>).	IN	A
Average number of peer reviewed publications per faculty member (<i>One of which must be Q1, Q2 or equivalent</i>)	IN	A
Increase the number of citations per academic discipline	IN	A
Average number of advisory council meetings.	D	M
% Active participation of college MOU(s).	D	M
# of college and community outreach activities.	D	M
% of courses (<i>teaching units</i>) utilizing blended learning	D	A
% of courses (<i>teaching units</i>) utilizing active learning strategies.	D	A
% of undergraduate courses (<i>teaching units</i>) with research activities.	D	A

Overall satisfaction with course (<i>teaching units</i>) experience.	IN	M
% of internally reviewed academic programs (<i>per year</i>).	IN	A
% of nationally accredited academic programs.	IN	A
% of nationally accredited programs implemented. (<i>within one year of receiving initial accreditation</i>).	IN	A
% of eligible academic programs achieving international accreditation.	IN	A

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

Teaching & Learning	Research	Community Service	Weaknesses
0	0		Student's recruitment activities for B.Sc. and M.Sc. programs require strengthening.
0	0	0	Heavy teaching load.
0	0		Faculty salaries and benefits - compared to other computer-related departments within UOS - are not competitive enough to attract and retain high caliber faculty.
	0		Shortage of physical space for research laboratories.
0			Low enrollment in both undergraduate and graduate programs.
0			Insufficient technical support.
	0		Lack of research assistants.
0	0	0	Constraints in decision-making.
0			Inadequate nonacademic activities for students on campus.

Challenges and Constrains:

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

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

3. The Education Program

Curriculum Development

No.	Course/Program	Development*	Description
BSc courses			
1-	Forensic Chemistry	3	The course covers; methods of analysis for the forensic materials from fundamental and chemical point of view. Topics include introduction to forensic chemistry, chemistry and the law, instrumentation for forensic analysis, drugs, and drugs in the body, combustion, and arson, explosives, paint, firearms and gunshot residue, forensic toxicology, colors and colorants, inks, paints, papers, fibers, and plastics
2-	Electrochemistry	4	The electrochemistry syllabus was developed to cover the following: An Introduction to Electrochemistry, The oxidation-reduction titrations, Applications of oxidation-reduction titrations, Potentiometric methods and sensors, Bulk Electrolysis techniques (Electrogravimetric methods and coulometric methods), Polarography General principles, excitation signal, voltammetric system, microelectrodes, voltammograms, hydrodynamic voltammetry, voltammetric sensors, amperometric titrations, polarography, DME, test polarography, pulse techniques, stripping analysis, Voltammetric techniques Cyclic voltammetry, Basic principles and applications, 2-Hydrodynamic, voltammetric techniques, Stripping analysis techniques, new slides were made.
3-	Remedial Chemistry	4	Design of 7 online assignments
4-	Chemistry 2 Laboratory Course no.: 1420104 (Mrs. Mona Kanj)	1	The course objectives are to teach chemistry major students' practical aspects of what they have acquired in theory course.

			<p>Course Description: This laboratory course is designed to teach practically the General basic chemistry techniques to Chemistry students.</p> <p>The course is updated, and new experiments were being added with various theoretical and practical methods: Molecular Geometry and Bonding, Colligative Properties- freezing Point Depression, pH measurement system, Buffers, Hydrolysis, Reaction Kinetics, Activation Energy, determination of Chemical Equilibrium constant, and Solubility product . Quantitative Analysis - Acid Base Equilibrium is also one of the topics that had been given as Vinegar Analysis and Neutralization reactions-Antacid Analysis. Electrochemistry is also introduced as Electrolytic cells, Galvanic Cells and the Nernst Equation.</p> <p>Team work was created for the class of 32 students. Each group three to four students had presented interactive presentations online on one of the above experiments and at the end they ask questions and assess the students of the class. It had been an interactive experience for all of them and all got benefit.</p> <p>Designed new assignments for all the new experiments that had been introduced. McGraw Hill assignments were also added and Jove.com was also a reference to so many experiments.</p>
5-	Chemical Literature & Seminar	3	<p>The course is updated, and the registered students were given a chance to develop their chemical literature skills as well as their presentation skills. New learning outcomes are adopted and mapped to the program learning outcomes.</p>

			<p>Students had two main presentation assignments, that in total exceeds 80 short presentations during the semester.</p> <p>For the first time, the final exam had three main components:</p> <ol style="list-style-type: none"> 1. PPT file Component 2. Oral Presentation Component 3. Written Exam Component <p>All students were assessed based on those components.</p>
6-	Instrumental Analysis	3	The course is updated. The students were introduced to new instrumental analysis techniques. Also, new learning outcomes are adopted and mapped to the program learning outcomes.
7-	Environmental Chemistry	3	The course is updated. The students were introduced to new Environmental Chemistry Problems. The course PPT files were developed, and a question bank was created for all the covered 10 chapters. New learning outcomes are adopted and mapped to the program learning outcomes.
8-	Physical Chemistry 2	4	Using Gaussian 16 and Gaussian V in predicting reaction mechanisms.
9-	Heterocyclic Chemistry		New course introduced for MSc. Programme. 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 of nomenclature, structure, properties, preparations and reactions.
10-	General Chemistry 1 for MS		Course description has been updated. Bonding and isomerism, stereoisomerism,

			organic chemistry of saturated and unsaturated hydrocarbons, aromatic compounds, functional groups (Alcohols, thiols, amines, amides, carboxylic acids, and esters).
	<u>Msc courses</u>		
1-	Forensic Chemistry	3	The course covers; methods of analysis for the forensic materials from fundamental and chemical point of view. Topics include; introduction to forensic chemistry, chemistry and the law, instrumentation for forensic analysis, drugs, and drugs in the body, combustion, and arson, explosives, paint, firearms and gunshot residue, forensic toxicology, colors and colorants, inks, paints, papers, fibers, and plastics
2-	Advanced analytical Chemistry	4	New topics were covered: Chemometrics (statistics of repeated measurements: Anova test), Ultraviolet and visible absorption spectroscopy, Electroanalytical methods- Potentiometry, Molecular Fluorescence and Phosphorescence, Mass Spectrometry, Atomic Absorption Spectrophotometry, Chromatographic Theory, Column Liquid Chromatography, Gas Chromatography, Supercritical fluid chromatography. Two case studies and two term papers were given
3-	Special Topics in Analytical Chemistry (Fall 2020-2021)	3	This course was taught for the first time, topics developed are: Electrochemical sensors, reference electrodes, biological implications, solid-state reference electrodes, potentiometric sensors, ion selective (cation, anion, neutral species), water monitoring, clinically relevant electronic tongues, voltammetric sensors, carbon based materials, simultaneous determination molecularly imprinted electrodes, amperometric sensors, novel materials/composites, nonenzymatic

			glucose and H ₂ O ₂ sensors, Immunosensors, carbon nanotubes, cancer detection sandwich-type sensors, Biosensors, enzyme-based biosensors, glucose sensors, lactate sensors, Other enzymatic sensors, direct electron transfer, DNA based sensors, microfluidic systems, continuous flow assays, droplet assays, Mass sensors, Quartz crystal microbalance cantilever sensors. Two case studies were given and two term-papers.
4-	Advanced Environmental Chemistry	3	New topics were developed for this MSc (Master of Science) in science and engineering course: Introduction to Green Chemistry, Ground-Level Air Pollution - Outdoors and Indoors, The Detailed Chemistry of the Atmosphere, The Greenhouse Effect and Global Warming, Climate Change in the Future: Predictions, Consequences, and Controls, Renewable Energy, Alternative Fuels, The Chemistry of Natural Waters, The Pollution and Purification of Water. 2 cases studies and 4 reports were given to students that are: The foul smell of hydrogen sulfide origin and proposed remedies, Effect of Algal bloom on marine life and related industries in UAE (United Arab Emirates) in UAE, composition and treatment, Effect of Covid-19 on the environment example of PPE.
5-	Separation Methode In Chemical Analysis	4	A new chapter was introduced including the following topics: Classical Separation methods, Introduction to Separations Science, what is a Separation?, Separation by precipitation, Sulfide Separation, Separation by other inorganic precipitants, Separation by organic precipitants, Separation of species present in trace amounts by precipitation, Separation by electrolytic precipitation, Salt-Induced Precipitation of Proteins, Separation of species by distillation, Extracting inorganic species, Separating Metal Ions as chelates, Separation by Extraction Liquid-liquid

			extraction. One case study was given: Fatty acid analysis using GC-MS, and each student was given one topic.
6-	Homogeneous Catalysis	5	Student in group wrote term papers related to the topics of the course materials.
7-	Special Topics in Analytical Chemistry (Spring 2020-2021)	3	New topics related to Electrochemical Biosensors are developed. The course focused on understanding the interfacing of three advanced technologies, micro- and nanomaterials, biomaterials, and electronic transduction. Such biocomponent-transducer combinations offer new powerful analytical tools that are applicable to many challenging problems. A level of sophistication and state-of-the-art technology are commonly employed to produce easy-to-use, compact, and inexpensive devices. Also, new learning outcomes are adopted.
8-	Advanced Physical Chemistry	6	Introduction of 6 case studies where thermodynamics, chemical kinetics and computational approach are implemented. In addition, statistical thermodynamics to understand chemical equilibrium problems.
9-	Special topics in Physical Chemistry	1	Introduction of computer software in drug design
<u>PhD courses</u>			
1-	Advanced Analytical Chemistry	3	A new course was developed for the Chemistry Ph.D. Program, Course number 1420540, credit hours (3). Course description: Advanced instrumental analysis: electroanalytical methods including potentiometry, voltammetry and coulometry. Spectroscopic techniques: AA, FE, ICP, molecular spectroscopy: fluorescence and

			phosphorescence. Chromatography: principles GC, HPLC, mass spectrometry. Flow injection analysis technique (FIA).
2-	Advanced Physical Chemistry 2	1	New course developed for the ph. D program in chemistry

Department of Applied Biology			
No.	Course/Program	Development*	Description
	<u>BSc courses</u>		
1-	Biotechnology Bachelor Degree Program	1	Program outcomes were modified according to the new 2019 CAA standards.
2-	Biotechnology Bachelor Degree Program	1	Program Goals were modified according to the new 2019 CAA standards.
3-	All courses	2	The outcomes of all B.Sc. courses were modified according to the new 2019 CAA standards. The new outcomes were aligned with the new program outcomes and according to 2019 CAA standards.
4-	BSc. program in Biotechnology	ERT Response Report	ERT response report for re-accreditation was prepared according to CAA 2019 standards, and submitted to MoE through DQAIE
5-	BSc. program in Biotechnology	ABET Business Plan	Business Plan was prepared according to ABET 2021/2022 Cycle.
	<u>M.sc courses</u>		
1-	Advance Biochemistry / Master in Biotechnology	3	In the newly submitted accreditation, the Advanced Biochemistry and Molecular Biology course were split into two advanced courses.
2-	Biotechnology Master Degree Program	1	Program Goals were modified according to the new 2019 CAA standards.

3-	All MSc courses	2	Course outcomes were modified according to the new 2019 CAA standards. The new outcomes were aligned with the new program outcomes and according to 2019 CAA standards.
4-	Higher Diploma in IVF & Stem Cell Technology	Higher Diploma in IVF & Stem Cell Technology Business Plan	Business Plan was prepared according in 2021/2022 and submitted to College of Graduate Studies.
5-	Advanced Immunology	2	Included Recent review articles as part of the course in accordance with Accreditation Committee Recommendations.
6-	Advanced Virology	2	Updated content and added new course material about Corona Viruses
<u>PhD courses</u>			
1-	PhD program in Biotechnology	1	All comments raised by College of Graduate Studies and DQAIE were addressed. Comments by UoS Board of Trustees were received with a permission to start preparing the self-study for initial accreditation.

Department of Mathematics			
No.	Course/Program	Development*	Description
1	Introduction to Bayesian data analysis	New course for MSc data Sciences	Preparing a course outline.
2-	Graphical data analysis	New course for MSc data Sciences	Preparing a course outline.

3-	Design of Experiments	New course for MSc data Sciences	Preparing a course outline.
4-	Nonparametric Inference of Statistics	New course for MSc data Sciences	Preparing a course outline.
5-	Stochastic Processes	New course for MSc data Sciences	Preparing a course outline.
6-	Applied Time Series Analysis	New course for MSc data Sciences	Preparing a course outline.
7-	Topics in Statistics	New course for MSc data Sciences	Preparing a course outline.
8-	Mathematical Methods for Bioinformatics	New course for MSc for Biomedical Health informatics	Preparing a course outline.
9-	Math for Bus. (1440100)	Course Update	Course content changed
10-	Business Mathematics	Curriculum	Combined two math courses.
11-	Calculus for Health Science	Curriculum	Revised the syllabus and adapted a New textbook.
12-	Calculus for Pharmacy	Curriculum	Revised the syllabus.
13-	Remedial Math	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to

			communicate with students, make announcements and post educational resources.
14-	Differential Equations for Engineers	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
15-	Operations Research I	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
16-	Calculus II for Sciences	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
17-	Calc. I for Engs	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
18-	Cal. for Pharmacy	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
19-	Analytical Geometry	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
20-	Calc. II for Engs	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.

21-	Business Math	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
22-		Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
23-	Mathematics for Bus	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
24-	Calculus I	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
25-	Calc. I for Health Sc.	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
26-	Stat. For Science	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
27-	Linear Algebra I	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
28-	Vector Calculus	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.

29-	Mathematical Software	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
30-	Ordinary Diff. Equations I	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
31-	Geometry	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
32-	Diff. Eqs for Engs	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
33-	Math for Eng.	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
34-	Bus. Statistics.	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
35-	Statistics for Sociology	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
36-	Intr. to Prob. & Stat.	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.

37-	Abstract Algebra I	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
38-	Number Theory	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
39-	Graph Theory	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
40-	Ordinary Diff. Equations II	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
41-	Graduation Project	Content Development	Making use of the University Blackboard to deliver the course material and assignments, and to communicate with students, make announcements and post educational resources.
42-	Advanced Methods for Partial Differential Equations	New Course	Master program in mathematics
43	Numerical Solutions for Partial Differential Equations	New Course	Master program
44	Advanced Complex Analysis	New Course	Master program in mathematics
45	Applied Linear Algebra	New Course	Master program

46	Applied Measure Theory	New Course	Master program in mathematics
47	Partial Differential Equations I: Theory of Distributions and Sobolev Spaces	New Course	Master program in mathematics
48	Selected Topics	New Course	Master program
49	Optimization	New Course	Master program in mathematics
50	Introduction to Bayesian Data Analysis	New Course	Master program
51	Applied Regression Analysis	New Course	Master program in mathematics
52	advanced Stochastic Processes	New Course	Master program
53	Numerical Solutions for Ordinary Differential Equations	New Course	Master program in mathematics

Department of Applied Physics and Astronomy			
No.	Course/Program	Development*	Description
<u>BSc courses</u>			
1-	Modern Physics Lab	New experiments	Adding new experiments, update the manual to fit for online teaching mode.
2-	Physics 2 Lab	Updated Lab Manual	Prepare and update new experiments

3-	Igneous and Metamorphic Rocks_1460225	New elective course	First time the course is taught
4-	Physics for MI Lab	Writing new manual	Write new manual for online teaching.
5-	Physics 1 Lab -1430116	Updating the experiments – Manual	The experiences were developed to be compatible with both the online and in-person teaching .
6-	Physics for Medical science lab	Updating the experiments – Manual	The experiences were developed to be compatible with the distance online teaching .
7-	Physics for Health science lab -1430107	Updating the experiments – Manual	The experiences were developed to be compatible with the distance online teaching .
8-	Exploration Geophysics 2	New Experiments	Adding new experiments
9-	Modern physics	Updating course materials and including the use of online textbook	Online textbook
10-	Petrophysics	New BSc course	First time the course is taught.
11-	Seismology and Plate Tectonics	New BSc course	First time the course is taught.
12-	Basin Analysis	New BSc course	First time the course is taught.
13-	Well Logging	New BSc course	First time the course is taught.
14-	Petroleum Geology of the Middle East	New BSc course	First time the course is taught.

15-	Reservoir Characterization	New BSc course	First time the course is taught.
16-	Seismic Stratigraphy	New BSc course	First time the course is taught.
17-	Electronics Lab Manual	New Lab Manual	The new manual includes 11 experiments that fit all teaching methods such as blended learning, distance-learning, or In-person learning mode.
18-	Astronomy and Space Sciences	Content Development: Updating and Editing the Material	Enhancing the slides with more videos and pictures which explaining the material clearly and adapting the online teaching.
	<u>MSc courses</u>		
1-	Digital Cartography and visualization	New Master course	First time the course is taught
2-	Stellar Astrophysics	New MSc course	First time offered.
3-	Galactic and Extragalactic Astrophysics	New MSc course	First time offered.
4-	Celestial Mechanics	New MSc course	First time offered.
5-	Radio Astronomy	New MSc course	First time offered.
6-	M.Sc. in Physics	New M.Sc. program	To start in Fall 2021-22
	PhD courses		
1-			

*Development:

2- Course Update: change in course name, pre-requisites, credit hours, ..etc.

3- New Course

3- Content Development

4- 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.

Department of Chemistry	
1-	(Dr. Ayssar Nahle) Research-based teaching methodology is applied to all of the CD Graduate Courses Case
2-	(Dr. Abdelaziz Elgamouz) Blended learning using blackboard ultra and active learning using case studies were used in advanced courses: Advanc, Electrochemistry ed Environmental chemistry, Sep. Meth. In Chem. Analysis, Adv Analytical Chemistry, Spet. Topics in Analyt. Chem and Sep. Meth. In Chem. Analysis. In remedial chemistry blended learning was used only. However, using research in teaching was implemented in two courses: Industrial Training, and Research Project for undergraduate and postgraduate courses. Tow students from the BSc of Chemistry attended the labs physically and carried out wet labs experiments related to their research projects, 6 students in the fall and 6 students in the spring trained in different industries or governmental institutions they execute different works related to chemical analysis and Validation experiments. 2 MSc (Master of Science in chemistry) students took their MSc project during the spring semester worked on LC-MC validation technique and Soil analysis in Dubai forensic labs.
3-	(Dr. Kamrul Hasan) Blended learning was used for the undergraduate courses via Blackboard Ultra. However, for advance course Homogeneous Catalysis active learning was used for case studies. Six students in two groups were conducted their graduation projects. Students came physically in the lab for completing their research projects.

4-	<p>(Prof. Abdelnasser Kawde) In all senior undergraduate courses, Chemical Literature & Seminar Course, Instrumental Analysis Course, and Environmental Chemistry Course (taught in Spring 2020-2021), active learning using blackboard ultra was used.</p> <p>For the MSc course, Special Topics in Analytical Chemistry (Spring 2020-2021), active learning using blackboard ultra was used, and students have completed case studies and term paper projects.</p> <p>For all courses, online office hours were conducted via MS Teams.</p>
5-	<p>(Dr. Mahreen Arooj) Blended learning technique was applied for Physical chemistry 1 and General chemistry for HS courses using Blackboard Collaborate. For Physical chemistry 1 course, in order to prepare students for their literature survey and presentation skills, research report preparation and presentations were done by each student. Three students completed their senior research project using both blended and active learning methods.</p>
6-	<p>(Dr. Mohamed El-Naggar) Blended learning was used for the undergraduate courses via Blackboard Ultra. For the MSc course, Research Methodology (Spring 2020-2021), active learning using blackboard ultra was used, and students have completed case studies and term paper projects.</p> <p>For all courses, online office hours were conducted via MS Teams.</p>
7-	<p>(Mrs. Mona Kanj) The main steps on how I delivered my blended laboratory teaching for my six laboratory courses during the academic year Fall/Spring 2020-21.</p> <ul style="list-style-type: none"> • My teaching was blended, a part of the laboratory experiments were given face to face, and a part was online. The experiments that were run in-person to a group of students; I used to give the demonstration for the experiment to them personally and they proceed to do the experiments; the other half (online students), I used to share with them a separate camera that is installed and moved to show all the details as we were running the lab. and all the instructions how do we prepare the apparatus or how we use the instruments. At the same time there were interaction with the students asking questions, the students in the lab. they directly interact with me and the others talk and chat with me and all the chatting appears on the overhead projector. This kind of blended learning created a team work atmosphere. In blended learning, the

	<p>students get benefit from the unique advantages of both physical and online learning.</p> <ul style="list-style-type: none"> Recorded Videos were delivered on my One Drive and posted it at the Blackboard's Content Area, to enrich the student's learning experience. This was so beneficial to engage students and reinforce the course content with videos, and interactive tools that support the students' learning styles. Used Instructional Resources (JoVE Education videos) in some experiments as an add. Used Youtube educational links for some experiments, for the use of certain instruments, example Guoy Balance (magnetic susceptibility Balance). Used all the available tools at the Blackboard Collaborate by sharing application, sharing screen, sharing well-constructed files, sharing blank whiteboard, create groups and polling to ensure clear delivery. Get students into the habit of participation as much as it was possible by asking a lot of Pre lab. Questions and interacting with them during the lecture, the students who interact used to take credits. Created assignments and displayed them on the Blackboard. Team work was created for the class of 32 students. Each group three to four students had presented interactive presentations online on one of the experiments (Chemistry 2 Lab. and Inorganic Lab.) and at the end they ask questions and assess their friends (students of the class). It had been an interactive experience for all of them and all got benefit. Designed new assignments for all the new experiments that had been introduced in the Chemistry 2 lab., McGraw Hill assignments were also added and Jove.com was also a reference to so many experiments. Created Problem based assignments (Inorganic Chemistry Lab. - Magnetic Susceptibility calculations). Provided raw data for analysis: In cases where the lab includes both collection of data and its analysis; in the recorded video the data was shown how it was collected, and then provided some raw sets of data for students to analyze. This approach kept the students engaged with parts of the lab. experience. Created new questions and built pools. Pools were useful for storing questions and reusing them in more than one Test or Survey.
8-	<p>Ibrahim Abdel-Rahman:</p> <p>During this year and because of Covid-19, all the labs that I taught during this year are delivered using the hybrid method (blended) using Blackboard Collaborate Ultra.</p>

	I used also the virtual video links like: JOVE educational videos, McGraw-Hell link, YouTube and my videos that I have done in the Labs.
9-	<p>(Mrs. Azeera) - The laboratory courses (except GC lab for MS) that were taught in the academic year 2021-2021 had followed the hybrid model, with some sessions attended in-person and other sessions delivered online using proper virtual tools.</p> <p>Online lab lectures were delivered on Blackboard Collaborate. Presentations, interactive simulations from McGraw Hill Connect, JoVE video demonstrations of chemistry experiments and Lab experiment video recorded at UoS labs were also deployed on blackboard to facilitate student interactions. Lecture recording was posted at the end of each session.</p> <p>Organic Chemistry (1) Lab course - Some lab experiments were recorded and posted on the blackboard along with YouTube videos and JoVE videos. Test format lab reports were posted on BB at the end of each session. Poll sessions, JoVE quizzes, etc were introduced in the session to enhance students' participation.</p> <p>Physical Chemistry (1) Lab course – All the experiment videos were recorded and posted on blackboard along with some JoVE animation videos. Test format lab reports were deployed on blackboard on the same day of the session for all the students (in-person and online) to submit. All the experiment related problems were solved in MS whiteboard during the lecture. In addition to that, for all the experiments students were provided with raw data to analyze which had helped to increase their analytical thinking and problem-solving ability.</p>
10-	<p>Simulated problems using chemistry software (Discover, G16, GV5, Rasmole) were used and part of active learning in General Chemistry for HS, Physical 2 and advanced physical chemistry courses. All such simulations were implemented by students through getting the proper in-class teaching.</p>
11-	<p>(Dr. Ahmed Almehti) For advance course Biochemistry, Blended learning as well as problem-based learning were applied. Online assignments were given and solved in groups of students. As for all other undergraduate courses such as general Chemistry-1 and-2 for medical Sciences and general Chemistry for Health Sciences Blended learning was used through Blackboard Ultra.</p>

Department of Applied Biology	
1-	Flex learning was 100% applied in all courses through online lectures, recording videos, on-site labs and when available virtual simulation labs all through Blackboard Collaborate Ultra sessions.
2-	Video demonstration by the instructor of all experiments in all labs.
3-	Online lab manuals: students are provided with lab manuals for detailed protocols of experiments
4-	PowerPoint presentations for the explanation and demonstration of experiments.
5-	Use of Blackboard to deliver course material, assignments, quizzes and exam – all course materials were uploaded on Blackboard and course assignments and lab reports were also delivered on Blackboard. To deliver exams and quizzes Lockdown browser was used.
6-	All B.Sc. Exams were computer based using Blackboard and Lockdown browser and on-campus for invigilation, and M.Sc. exams were paper-based
7-	In many labs, YouTube videos were used to support the explanation of some experiments.
8-	Use of "Banner" and "Blackboard _ Grade Center" for posting the students grades
9-	Use of Black board and blackboard collaborate ultra to report students attendance
10-	Using JoVE library demonstrating Core Biology concepts in many courses
11-	Supervising students' library projects in General Microbiology (1450331) and in Introduction to Forensic Sciences (1450311) courses on Fall and Spring 2021/2022, respectively. Five groups of 5 students' members prepared a poster then presented their projects during the 12 TH Biotechnology Students' Exhibition (Nov. 25 th , 2021) and on Feb. 15 th , 17 th , March 22 nd , and April 19 th , 2022.
12-	Study case preparation by students in Introduction to Forensic Sciences course. Information from the media resources (internet, Newspaper, Radiobroadcast and TV) about the subject matter of this course were presented by groups of 5 students.

13-	Organizing three forensic expert lectures delivered to Forensic Science students during Spring 2021/2022. These lectures were pre-arranged and were delivered online on Feb. 3 rd , March 3 rd , and April 21 st , 2022.
14-	In graduate level courses (Biotechnology & Genetic Engineering 1450-502), students, on an assigned topic related to the course, presented a scientific paper, shared the literature and results with the class, evaluated the data, and grading was performed according to a specific format.
15-	All theory classes for Fall and Spring 2021/2022 were delivered by hybrid system and online using the Blackboard Collaborate Ultra, respectively.
16-	MT and Final exams during Fall and Spring 21/22 were delivered onsite and were computer based. Invigilation for both exams was performed onsite.
17-	Supervision of UG research projects and Master Non-Thesis and thesis research projects. All projects were presented in a scientific manner. The students defended their projects successfully.
18-	Weekly MS Team or on-site meetings were organized to discuss the research progress with M.Sc. students

Department of Mathematics	
1.	Online teaching, quizzes, exercises and final exam using the BB system and other software programs like MS teams for the Spring 2019/2020.
2.	Final year project was discussed using the online system
3.	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)
4.	Home works have been assigned to students
5.	Design and update for the PowerPoint Slide Notes
6.	Problem solving approach was adopted in these four courses(Business Stat., Probability and Statistics, Business Math and Math Business)

7.	Home works have been assigned to students
8.	Design Problem sets for the course Math. For Eng. To enhance student learning.
9.	Case Studies: Statistics for Science Lab
10.	Group learning techniques
11.	Project for students

Department of Applied Physics and Astronomy	
12-	E-learning for the whole academic year
13-	Using Black Board Collaborate Ultra for online teaching.
14-	Using Virtual Lab to do online experiments.
15-	Using online quizzes and final exams
16-	Using Blackboard Collaborate for delivering virtual experiments, Modified PowerPoint presentation, modified lab reports and recorded lectures for all experiments.
17-	All group lab reports during the online study period have been graded normally and returned to students with full feedback and then posted within the Blackboard in the "Full Grade Center".
18-	Using online quizzes; (2-3) quizzes for each section in addition to the final exam
19-	Using virtual lab and simulation experiments during the entire period of the online study
20-	Online homework using WilyPLUS for Remedial Physics
21-	Online group discussions about astronomical news and events.
22-	Power Point Presentation for experiments are changed and modified to adapt the new situation of the online and virtual experiments.
23-	All Lab Reports for experiments are modified to adapt the new situation of the online and virtual experiments.
24-	A practical project designed by the student was used in the electronics lab as an assessment tool to evaluate the student's achievements.
25-	Blended learning technique was used for "Electronics for experimental Physics 1 Lab". All experiments were presented in the laboratory for the in-person and the online students at the same time. The lab reports, procedures, and PowerPoint presentations for 11 experiments were re-designed to fit the hybrid teaching method (the link below). In addition, experimental online projects were used in this lab as new assessment tools to evaluate the student's achievement. https://drive.google.com/file/d/1QTk0dzLc2GUjM4r3-PRAutSs-z07luC/view?usp=sharing

26-	The blended learning method was used for Phys.1 lab, Phys. 2 Lab, and Electronics Lab through the Blackboard Ultra. All lab recordings “including introduction, simulation, and discussion” were posted at the end of each lab, and available to the students within the Blackboard system
27-	<p>After switching to the hybrid teaching method in the labs, I tried to involve students in this process according to the college’s orientation and the university’s vision. To get students engaged in this process, I encouraged students to publish their activity on any website used to run our experiments.</p> <p>As a result, 107 students from Physics 1 Lab have published their worksheets on the PhET website established by the University of Colorado, all these worksheets are volunteer projects and published under the organization (University of Sharjah) and can be used by students and teachers around the world</p>

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		-			
Total # Trainee Students (National in UAE)		-			
Total # Trainee Students (Training abroad)		-			

Internship Sites

Department of Chemistry

No.	Site Name	Place	# Male Students	# Female Students	Total
1	Sharjah Municipality	Sharjah	0	5	5
2	Department of Chemistry University of Sharjah	Sharjah	1	0	1
3	Dubai Police General Head Quarters- Forensic Labs	Dubai	5	4	9
4	Ajman Municipality	Ajman	0	1	1
5	Al Qassemi Hospital	Sharjah	0	1	1
7	Sharjah Police Forensic Laboratory	Sharjah	0	2	2
8	Masafi hospital or masafi mineral water factory or any site in khorfakan	Masafi/Sharja	0	1	1
9	Muwasat hospital (khubar)	Al- Khobar/KSA	0	1	1
10	Ministry of climate change and environment	Dubai	0	2	2
11	Kalba Municipality	Kalba/Sharjah	0	1	1
	Total	10	6	18	24

Department of Applied Biology					
No.	Site Name	Place	# Male Students	# Female Students	Total
1	Dubai Police Forensic	Dubai	0	10	10
2	Sharjah Police Forensic	Sharjah	1	9	10
3	University Hospital Sharjah	Sharjah	0	6	6
4	Sheikh Khalifa Medical City-Ajman	Ajman	0	4	4
5	Dubai hospital- pathology department	Dubai	0	1	1
6	Center for Biotechnology, Khalifa University	Abu Dhabi	0	1	1
7	Sharjah Municipality	Sharjah	1	8	9
8	Advance Biotechnology Centre	Dubai	0	3	3

9	Dubai Central Laboratory - Dubai Municipality	Dubai	0	5	5
10	University of Sharjah	Sharjah	1	1	2
11	Dar Al Hikmah medical laboratory	Sharjah	0	1	1
12	Alzahra general hospital, KSA	Saudi Arabia	0	1	1
13	Zayed military hospital	Sharjah	0	1	0
14	Latifa Women and Children hospital, Genetics center	Dubai	0	1	1
15	Agiomix	Dubai	0	2	2
16	Ajman Municipality	Ajman	0	1	1
17	Karaiaf Agricultural Co. LLC. -AL Ain City, UAE	Al Ain	1	0	1
18	Rashid Hospital	Dubai	0	2	2
19	Umm Al Quwain Municipality	Umm Al Quwain	0	1	1
20	Emirates Specialty Hospital	Dubai	0	1	1
21	Biogenix G42 labs, Abu Dhabi	Abu Dhabi	0	1	1
22	Public health laboratory	Dubai	0	1	1
23	The International Center for Biosaline Agriculture	Dubai	0	1	1
24	Fujairah Municipality	Fujairah	0	1	1
	Total	24	4	63	67

Department of Mathematics					
No.	Site Name	Emirate	# Male Students	# Female Students	Total
1	Sharjah Academy of Astronomy, Space sciences & Technology	Sharjah	1	10	12

2	Research Institute for Sciences & Engineering	Sharjah	0	1	
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Department of Applied Physics and Astronomy					
No.	Site Name	Emirate	# Male Students	# Female Students	Total
1	SAASST	Sharjah	5		1
2	Petroleum Company	Sharjah	1		1

Self evaluation of the Internship

The number of trainees in the College have **76 students this year**. Such trainees are placed in different **25 training sites within the UAE and abroad**. Such broadening of training sites is happening due the outreach policy set by the College and to the divers population within the College. All host sites have expressed their good impression about the quality of the trainees from the University of Sharjah. That is why, potential employers of our students are always seeking potential trainees from the College.

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.

Academic Accreditation Status

Department of Chemistry						
No.	Program	Deg.*	Status **	From	To	Comments
1.	Bachelor of Science in Chemistry (B.Sc. Chemistry)	Bachelor	Full accreditation	2018	2023	The BSc of Chemistry is accredited by the Mistry of Higher Education UAE
2.		Bachelor	Full accreditation	22 nd Nov 2016	2022	The BSc of Chemistry is accredited by the ABET
3.	Master of Science in Chemistry (MSc. In Chemistry)	Masters	Full accreditation	2019	2024	The MSc of Chemistry is accredited by the Mistry of Higher Education UAE
4.	Bachelor of Science in Chemistry (Biochemistry track)	Bachelor	Initial Accreditation	Under process		Under process
5.	Doctor of Philosophy in Chemistry (PhD in Chemistry)	PhD	Initial Accreditation	Under process		Under process
Department of Applied Biology						
6.	Bachelor of Science in Biotechnology	Bachelor	Re-accrediation	12-012015	31-12-2019	Self-study in DQAIEA for revision; should be reproduced according to the new standards templates
7.	ABET- Bachelor of Science in Biotechnology	Bachelor	Accreditation	1-7-2022	30-9-2023	Request to initiate re-accredittaiion to ABET on 31 January 2022
8.	Master of Science in Biotechnology	Masters	Initial accreditation	11-4-2016	After graduating of 2 batches	Self-study in DQAIEA for revision; should be reproduced according to the new standards templates
Department of Mathematics						
9.	Bachelor in Mathematics	Bachelor	Fully accereditd	April 2016		MOE accreditation
10.	Bachelor in Mathematics	Bachelor	Fully accereditd	April 2016		ABET Accreditation
Department of Applied physics						
11.	Bachelor of Science in Applied Physics	Bachelor	Fully accredited	20XX		MOE accreditation
12.	Bachelor of Science Petroleum Geosciences and Remote Sensing	Bachelor	Fully accredited	20XX		MOE accreditation
13.	Master of Science in Astronomy and Space Science	Master	Fully accredited	20XX		MOE accreditation

14.	Master of Science in Geographic Information Systems and Remote Sensing	Master	Fully accredited	20XX	MOE accreditation
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* Deg. : PhD, Master, Bachelor, Diploma

** Status: Re-Accreditation, Full-Accreditation, Initial-Accreditation, Under Process

Current Programs

No.	Program
1.	Bachelor of Science in Chemistry
2.	Master of Science in Chemistry
3.	Bachelor of Science in Biotechnology
4.	Bachelor of Science in Mathematics
5.	Bachelor of Science in Applied Physics
6.	Master of Science in Chemistry
7.	MSC Environmental Science and Engineering (Multidisciplinary program Chemistry and Biology are involved in it)
8.	Master of Science in Biotechnology
9.	Master of Science in Astronomy and Space Science
10.	Master of Science in Geographic Information Systems and Remote Sensing

Future Programs

No.	Program
11.	M.Sc. in Applied Physics and Astronomy
12.	Bsc in Biochemistry (Department of Chemistry)
13.	PhD in Chemistry
14.	PhD in Biotechnology

Students' Satisfaction

Self evaluation of the Students' Satisfaction with Program's outcomes

The Department of Chemistry, Applied Biology, Mathematics, and Applied Physics have conducted a full cycle of assessment of their educational outcomes. This is very evident because many patches of students have already graduated from such programs. From the individual data provided from such Departments, all educational outcomes have achieved the cut off value of success set by the College. Hence, all four Department are accredited for their BSc and MSc programs by the Ministry of Higher education.

Category	Occurrences 2021/2022				Total
	Chemistry	Applied Biology	Math	Applied Physics	
Total Number of UG Students	85	476	47	54	
Total Number of G Students	11	65	5	0	
Students' Satisfaction (Instructors)	4.11	4.45	4.25		
Students' Satisfaction (Courses)	4.03	4.40	4.22		
CGPA Analysis (Fall)	2.8	2.48	2.53		
CGPA Analysis (Spring)	2.63	2.60	2.34		

Plans for further Enhancing Student satisfaction with program outcomes

Make the tutorial sessions official as a part of the instructor teaching load as well as the students learning loads without changing the credit hours of the course. The outcome of utilizing the tutorial sessions might provide suitable way for the students to improve their problem solving skills, since problem solving has vital role of the learning process and in turn enhance the students ability for analytical and critical thinking capabilities.

Engage students in the department's activity such as visiting schools and doing science for fun.

Take students in scientific trips
Implementing virtual teaching tools
Full utilization of the power of the blackboard in teaching all courses
The use of technology in teaching is a key factor in the teaching/learning process.
New methodologies ought to be used in teaching whenever applicable like co-operative and self-learning, problem based learning.
Full Utilization the library and the new reference books in teaching and encouraging the students to use them.
The proper use of the internet and encouraging students to do so.
Continuous encouragement of the students to express their ideas and to use critical thinking.
Deal with real life situations in delivering knowledge for students
Design exams to clearly assess the expected educational outcomes
Develop new assessment tools
Introduce team-base learning (TBL) method as one of learning methods
Use problem base method along with classical & TBL teaching methods
Enhance students' active participation through asking questions and encourage students to answer and to ask questions.
Encourage the use of Research-based teaching methodology
Make the field visits as part of the course activities when applicable
Faculty analysis
Make research projects as a part of the students' studies in some courses
The use of experimental projects as new assessment tools to evaluate the students achievement

Class Size

Based on the number of students involved in all courses with the College of Science, it was found that the Student to instructor ratio is averaged to be around **6.0 students** per full time faculty (476/75). Actually, students enrolled in the COS major courses are relatively low. Enrollment in the COS service courses is high (**more than 133 students per faculty = 10,000/75**). Such ratio is relatively high and some measures have to be taken. With such ratio, the instructor cannot give the appropriate attention to all students.

Plans for Further Enhancing Class Size

As mentioned previously, the college serves most of the students in the University. Based on the statistic provided for the fall and spring semesters 2019/2020, **the college of Science had served all UOS students (students may be enrolled in more than one COS courses) by 86 full time faculty and 17 part time instructors.** That is why extra help is needed urgently during the coming years. More full time faculty members are needed. Core courses within individual Departments have low students

to instructor ratio. As mentioned earlier, the inflated rate is only happening with the service courses within the colleges.

11. Faculty and Professional Staff

List of Full-Time Faculty Members:

Department of Chemistry					
ID	Name	Rank	Department	Specialization	Comments
101723	Raed Abdallah AL Qawasmeh (Chairman)	Full	Chemistry	Organic	Joined January 18, 2019
10877	Ihsan Shehadi	Associate	Chemistry	Physical	Joined Sep. 1, 2009
	Monther Khanfar	Full	Chemistry	Inorganic	Joined Sep.6, 2020
101902	Abdelnasser Metwally Kawde	Full	Chemistry	Analytical	Joined Jan. 1, 2021
10078	Ayssar Nahle	Associate	Chemistry	Analytical	Joined Sept. 5, 1998
10041	Ideisan Abu Abdoun	Full	Chemistry	Organic	Joined June 6, 1998
10010	Ahmed Almehti	Associate	Chemistry	Biochemistry	Joined Sep. 1, 2012
101175	Ahmed Ali Mohamed	Associate	Chemistry	inorganic	Joined Sep. 1, 2014
10978	Mohammed El Naggari	Assistant	Chemistry	Organic	Joined Sep. 1, 2011
101314	Abdelaziz Elgamouz	Assistant	Chemistry	Bioanalytical	Joined Sep. 1, 2015
101313	Kamrul Hasan	Assistant	Chemistry	Organometallic	Joined Sep. 1, 2015
101617	Mahreen Arooj	Assistant	Chemistry	Physical	Joined Sep, 1 2018
10236	Ibrahim Abdul Rahman	Lecturer	Chemistry	Organic	
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

Department of Applied Biology					
ID	Name	Rank	Department	Specialization	Comments
10836	Prof. Ismail Saadoun	Professor	Applied Biology	Microbiology	Joined Feb. 10, 2009
101555	Prof. Elsidig A.E. Elsheikh	Professor	Applied Biology	Environmental Microbiology	Joined Sept. 1, 2020
10939	Prof. Ali El-Keblawy	Professor	Applied Biology	Plant Ecology, Environmental	Joined Jan. 30, 2011
10344	Prof. Ihsan Ali Mahasneh	Professor	Applied Biology	Biotechnology & Genetic	Joined Sept. 1, 2011
101392	Dr. Mona Hassuneh	Associate Professor	Applied Biology	Molecular Immunology	Joined Sep 01, 2015
10114	Dr. Abdelaziz Tlili	Associate Professor	Applied Biology	Human Molecular Genetics	Joined Jan 27, 2013
101318	Dr. Hassen Hadj Kacem	Associate Professor	Applied Biology	Molecular Biology	Joined Sept 2015
101317	Dr. Khalid Bajou	Associate Professor	Applied Biology	Biochemistry & Protein engineering	Joined Sept 2015
101105	Dr. Amir Ali Khan	Assistant Professor	Applied Biology	Stem Cells	Joined Sept. 1, 2013
101105	Dr. Muhammad Nasir Khan	Assistant professor	Applied Biology	Animal's Biotechnology	Joined Sept 2015
101234	Dr. Kareem Mosa	Associate Professor	Applied Biology	Plant Biotechnology	Joined Sep 1, 2014
101717	Dr. Abdullah Al Mutery	Assistant Professor	Applied Biology	Genetics	Joined Sep. 1, 2014
10920	Dr. Ban Al Joubori	Lecturer	Applied Biology	Pharmaceutical Biotechnology	Joined Sept. 1, 2010
10919	Mrs. Racha Al Khoury	Lecturer	Applied Biology	Biochemistry	Joined Sept. 1, 2010

101028	Mrs. Uzma Khan	Lecturer	Applied Biology	Molecular Genetics & Bioinformatics	Joined Sept. 6, 2012
101165	Tasneem Obaid	Lecturer	Applied Biology	Genetics and Molecular Biology	Joined Sept. 1, 2014
101166	Islam Eltayeb	Lecturer	Applied Biology	Medical Laboratory/ Medical Microbiology	Joined Sept. 1, 2014

Department of Mathematics					
ID	Name	Rank	Department	Specialization	Comments
101504	Abdelaziz Soufyane	Professor	Mathematics	Control Theory of Partial Differential Equations and Numerical Analysis	
10739	Basem Attiti	Professor	Mathematics	Numerical Analysis	
10311	Ali Jaballah	Professor	Mathematics	Algebra & Fuzzy Sets	
10077_	Khalil Al-Dosary	Professor	Mathematics	Dynamical Systems and Differential Equations	
101720	Salim Messaoudi_	Professor	Mathematics	Partial Differential Equations	
10094	Hishyar Kh. Abdullah	Associate Prof.	Mathematics_	Applied mathematics	
101016_	Firas Ghanim Ahmed	Associate Prof.	Mathematics	Complex Analysis	
101615	Belkacem Said-Houari	Associate Prof.	Mathematics	PDEs	
101323	Mohamed Bataineh	Associate Prof.	Mathematics	Extremal Combinatorics	
101320	Muhamed Islam	Associate Prof.	Mathematics	Partial Differential Equations	
101321	Mahmoud Benkhalifa	Associate Prof.	Mathematics	Algebraic topology	
101322_	Zahid Raza	Associate Prof.	Mathematics_	Pure and Applied Mathematics	
101630	Mostafa Zahri	Associate Prof.	Mathematics	Numerical Analysis and Mathematical Modeling	
101110	Mohammad Alakhrass	Associate Prof.	Mathematics_	Mathematical Analysis	
	Aziz Takhirov	Assistant prof	Mathematics	Numerical Analysis	

	Marwan Al Momani	Assistant prof	Statistics	Statistics	
101009	Nida Siddiqui	Lecturer	Mathematics_	Mathematics_	
10883_	Kholoud Mustafa	Lecturer	Mathematics_	Mathematics_	

Department of Applied Physics and Astronomy						
N	ID	Name	Gender	Rank	Specialization	Date Joined
1	10565	Hamid M. AL Naimiy	M	Professor	Astronomy and Space Sciences	1-Sep-06
2	10052	Bashir M. Suleiman	M	Professor	Material Physics	28-Feb-98
3	10573	Gaffar Attaelmanan	M	Professor	X-Rays Physics	1-Sep-06
4	101764	Mashhoor Alwardat	M	Professor	Interferometry and spectrophotometry of solar type binary stars	9/1/2019
5	101722	Nouar Tabet	M	Professor	Solar cells	1/13/2019
6	10230	Hussain Alawadhi	M	Associ. Prof.	Condensed Matter Physics	1-Sep-00
7	10480	Hussein EL Mehdi	M	Associ. Prof.	Bio-Medical Physics	12-Feb-05
8	101102	Hachemi Benaoum	M	Associ. Prof.	Particle & Nuclear Physics	19-Jan-14
9	101119	Mounir Kaidi	M	Associ. Prof.	Material Science Physics	21-Jan-14
10	101172	Kais Daoudi	M	Associ. Prof.	Optoelectronics	1-Sep-14
11	101236	Gehad Kandeel Sadiq	M	Associ. Prof.	Condensed Matter Physics	1-Sep-14
12	101407	Ilias Fernini	M	Associ. Prof.	Astrophysics	7-Feb-16
13	101506	Oleg Olendski	M	Associ. Prof.	Computational Physics	1-Sep-16
14	101435	Rachik Soualah	M	Assist Professor	Particle Physics HEP	31-Jan-16
15	101507	Muhammad Azeem	M	Assist Professor	Material Physics	1-Sep-16

16	101508	Yassir Ahmed Abdu	M	Assist Professor	Spectroscopy-Meteorites	1-Sep-16
17	101617	Hafsa Khurshid	F	Assist Professor	Nanoscale Materials Physics	8/20/2017
18	101671	Hamdan Ali Hamdan	M	Assist Professor	Geophysics	2-Sep-18
19	101715	Antonios Manousakis	M	Assist Professor	Stellar Astrophysics	2-Sep-18
20	101746	Daniil Moritis	M	Assist Professor	Geochemistry	9/1/2019
21	10039	Bassam Rashed Khader	M	Lecturer	Radiation Physics	12-Nov-97
22	10055	Omar Adwan	M	Lecturer	Nuclear Physics	4-Apr-98
23	10214	Mohammed A. Mansour	M	Lecturer	Electronics	1-Sep-98
24	10523	Nawal Mohamad Nayfeh	F	Lecturer	Condensed Matter Physics	1-Sep-05
25	101108	Saja I.M. AbdulHadi	F	Lecturer	Computational Physics	1-Sep-13
26	101109	Tahani I. Alsarayreh	F	Lecturer	Oceanography	1-Sep-13
27	101505	Abdulraheem Khudada	M	Lecturer	Radiation Physics	1-Sep-16
28	101886	Amine Ahriche	M	Professor	HEP	14-09-2020
29	101823	Hichem Eleuch	M	Professor	Quantum Physics	30-08-2020

List of Professional Staff

Department of Chemistry			
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
202486	Ms. Reem Al-Teneiji	Chemistry	Lab Officer
201673	Ms. Hajir Ibrahim	Chemistry	Lab Officer
201901	Mr. Ali Alsamarrai	Chemistry	Lab Technician
201435	Mrs. Muna Hassan AlBelooshi	Chemistry	Administrative assistant
202540	Mr. Amin Hasan	Chemistry	Lab officer

202689	Ms Alaa Bihi	Chemistry	Lab officer
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Department of Applied Biology			
ID	Name	Department	Job Title
201750	Mona Ibrahim	Applied Biology	Lab. Supervisor
20763	Aisha Ehtibi		Lab. Supervisor
201805	Mona Mahfood		Lab. Supervisor
201933	Muna Abdul Rahim Al Ali		Lab. Supervisor
202402	Maryam Ghaleb		Lab. Supervisor
201374	Mariam Saho		Admin. Asst.
201053	Sulfikkar Kunjimon Thazat		Office attender
70094	Roa Younsou		Teaching Assistant
70305	Amna M.A. Essa		Teaching Assistant

Department of Mathematics			
ID	Name	Department	Job Title

Department of Applied physics			
ID	Name	Department	Job Title
201228	Khadija Alhosani	DAPA	Lab instructor
202500	Mariam Rashed Al-Naqbe		Lab instructor
201351	Sanoor Mannath		Lab instructor
202194	Bento Joseph		Lab instructor
202262	Faisal Abdullah Alsane		Lab instructor
202288	Fatima Mohammed Alyassi		Secretary

List of Part Time faculty/staff

Department of Chemistry

Name	Rank	Department	Specialization	Comments
No partimers were hired this year based on UOS new guidelines				

Department of Applied Physics and Astronomy				
Name	Rank	Department	Specialization	Comments
Muhammad Fachri	Assist. Prof.	DAPA	Petroleum Geology	part time

Teaching Load

Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
			Contact Hours**	Credit Hours**	Contact Hours	Credit Hours
Raed Abdallah AL Qawasmeh (Chairman)	Professor	Full -Time	95	6	120.333	7.6
Ihsan Shehadi (College Ass. Dean)	Associate Professor	Full -Time	104.5	6.6	95	6

Monther Khanfar	Professor	Full -Time	161.5	10.2	215.333	13.6
Abdelnasser Kawde	Professor	Full -Time	-	-	199.5	12.6
Ayssar Nahle	Associate Professor	Full -Time	200.45	12.66	216.283	13.66
Ideisan Abu Abdoun	Professor	Full -Time	237.5	15	163.4	10.32
Ahmed Almehti	Associate Professor	Full -Time	237.5	15	190	12
Ahmed Ali Mohamed	Associate Professor	Full -Time	190	12	211.058	13.33
Mohammed El Naggar	Assistant Professor	Full -Time	205.833	13	163.558	10.33
Kamrul Hasan	Assistant Professor	Full -Time	190	12	190	13.98
Abdelaziz Elgamouz	Assistant Professor	Full -Time	235.125	14.85	162.133	10.24
Mahreen Arooj	Assistant Professor	Full -Time	190	12	190	13.99
Ibrahim Abdul Rahman	Lecturer	Full-Time	190	12	190	12
Mona Kanj	lecturer	Full -Time	190	12	190	13.5
Azeera Abdul Raheem	Lecturer	Full -Time	213.75	13.5	190	12

Ayesha Mohamed	Lecturer	Full -Time	213.75	13.5	190	12
			2854.90	180.31	2876.6	187.15
Total					5731.50	367.46
Average teaching Load						22.96

Department of Applied Biology						
Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
			Contact Hours*	Credit Hours**	Contact Hours	Credit Hours
Ismail Saadoun	Professor	Full time	12	6.6	12	8.4
Elsiddig A.E. Elsheikh	Professor	Full Time	8	8	12	12
Ali El-Keblawy	Professor	Full time	12.6	12.6	10.6	10.6
Ihsan Ali Mahasneh	Professor	Full Time	12	12	12.6	12.6
Khalid Bajou	Associate Prof.	Full Time	11.06	11.06	13.33	13.33
Mona Hassuneh	Associate Prof.	Full Time	12	12	12.6	12.6
Hassen Hadj Kacem	Associate Prof.	Full Time	15.5	15.8	11	11

Abdelaziz Tlili	Associate Prof.	Full time	7	7	11.86	11.86
Amir Ali Khan	Assistant Prof.	Full Time	10.6	10.6	15.6	13.6
Kareem Mosa	Assistant Prof.	Full Time	13.4	13.4	11.8	11.8
Muhammad Nasir Khan	Assistant Prof.	Full time	10	10	20.2	20.2
Abdullah Al Mutery	Assistant Prof.	Full time	12.5	12.5	12.5	12.5
Ban Al-Joubori	Lecturer	Full time	21	10.5	21	10.5
Racha Al-Khoury	Lecturer	Full Time	21	10.5	18	9
Uzma Inayat	Lecture	Full time	21	10.5	18	9
Tasneem Obaid	Lecturer	Full Time	21	10.5	18	9
Islam Eltayeb	Lecturer	Full time	21	10.5	18	10.5

Department of Mathematics						
Faculty name	Rank	Full-Time or Part-Time	Fall		Spring	
			Contact Hours	Credit Hours	Contact Hours	Credit Hours
Abdelaziz Soufyane	Professor	Full -Time	6	6	3	3
Bassem Attili	Professor	Full -Time	12	12	12	12
Khalil Al-Dosary	Professor	Full -Time	12	12	12	12
Ali Jaballah	Professor	Full -Time	12	12	12	12
Salim Messaoudi	Professor	Full -Time	9	9	9	9
Hishyer khalil	Associate Prof.	Full -Time	15	15	15	15
Firas Ghanim Ahmed	Associate Prof.	Full -Time	12	12	15	15
Belkacem Said-Houri	Associate Prof.	Full -Time	15	15	9	9
Muhammad Islam	Associate Prof.	Full -Time	12	12	12	12
Mahmoud Benkhelifa	Associate Prof.	Full -Time	12	12	12	12
Zahid Raza	Associate Prof.	Full -Time	15	15	12	12
Mohammad Bataineh	Associate Prof.	Full -Time	18	18	16	16
Mostafa Zahri	Associate Prof.	Full -Time	18	18	18	18
Mohammad Alakhrass	Associate Prof.	Full -Time	15	15	15	15

Mrs. Kholoud Abu Rezaq	Lecturer	Full-Time	15	15	15	15
Mrs. Nida Siddiqui	Lecturer	Full-Time	15	15	15	15
Binish	Lecturer	Part-Time	18	18		
Abdur Rehman Jami	Lecturer	Part-Time	15	15		
Alaa Bakir	Lecturer	Part-Time	9	9		
Imad Naser	Lecturer	Part-Time			15	15
Nosheen Zareen Khan	Lecturer	Part-Time			12	12
Mohamed Bayoumi Ali Hassan	Lecturer	Part-Time			6	6

Department of Applied Physics and Astronomy							
	Faculty name	Rank*	Full-Time or Part-Time	Fall		Spring	
				Contact Hours*	Credit Hours*	Contact Hours	Credit Hours
1	Muhammad Azeem	Assistant Professor	Full Time	12	12	12	12
2	Amine Ahriche	Professor	Full Time	12	9	12	9
3	Hichem Eleuch	Professor	Full	12	6	12	12
4	Bassam Rashed	Lecturer	Full time	26	12	26	12
5	Nawal Nayfeh	Lecturer	Full time	24	12	24	12
6	Saja AbdulHadi	Lecturer	Full time	24	12	24	12
7	Rachik Soualah	Assistant Professor		9	9	6	6

8	Attaelmanan Gaffar	Professor	Full-time	6	6	6	6
9	Hafsa Khurshid	Assistant Professor	Full - Time	9	9	12	12
10	Daniel Moraetis	Assistant Professor	Full - Time	12	12	10	10
11	Yassir Ahmed Abdu	Assistant Professor	Full-Time	9	9	9	9
12	Hamdan Hamdan	Assistant Professor	Full-time	15	15	9	9
13	Mounir kaidi	Associate professor	Full time	12	12	9	9
14	Muhammad Fachri	Assistant Professor	Part-time	12	12	12	12
15	Moh,d Mansour	Lecturer	Full-Time	24	12	24	12
16	Bashir Suleiman	Professor	Full-time	24	12	9	9
17	Kais Daoudi	Associate Professor	Full time	9	9	12	12
18	AbdulRaheem Khudada Mohammed	Lecturer	Full-Time	24	12	24	12
19	Antonios Manousakis	Assistant Professor	Full Time	12	6	12	12
20	Ilias Fernini	Professor	Full Time	9	9	9	9
21	Nouar Tabet	Professor	Full time	3	3	3	3

2 2	Gehad Sadiek	Associate Professor	Full time	9	9	9	9
2 3	Tahani Sarayreh	Lecturer	Full time	24	12	24	12
2 4	Omar Adwan	Lecturer	Full Time	21	15	21	13.5
2 5	Hachemi Benaoum	Associate Professor	Full Time	12	9	12	9
2 6	Hussain Alawadhi	Associate Professor					
2 7	Hessein Elmehdi	Associate Professor					
28	Hamid K Naimiy	Professor					

*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.

Faculty Analysis

Department	Full Professor	Associate Professor	Assistant Professor	Full Time Lecturer	Part Time Lecturer/ Faculty	Staff	Total
Applied Physics	7	7	6	7	1	7	70
Applied Biology	4	5	3	5	-	9	52

Chemistry	4	3	4	4	0	9	48
Mathematics	5	9	2	2	0	0	36
Total	20	23	16	18	1	25	103

Faculty Analysis for College of Sciences

- Qualifications: PhDs from: USA, UK, Canada, Sweden, France, Germany, Australia
- 20 full professors, 23 associates, 16 assistants, & 18 lecturers 25 staff.

Self Evaluation of Teaching Faculty Teaching load

As mentioned previously, the college serves most of the students in the University. Based on the statistic provided for the fall and spring semester 2020/2021, the college of Science had served **UOS students by 103 full time faculty and assistants**. That is why extra help was needed urgently needed during the year. More full time faculty members are needed and have more constraints on students enrolled from other Colleges. Core courses within individual Departments have a very low students to instructor ratio. However, the average teaching load per faculty members is around **20** which is above the normal load.

Plans for Further adjustment to faculty load

- 1- Hire new qualified full or part time faculty members where needed.
- 2- Reduce the teaching load to 9 cr. hrs/semester

Faculty Development

Department of Chemistry			
No.	Development Event*	Development Area**	Description
1-	Labster	Teaching & Learning	1/13/2021
2-	Higher Education Institutions in the time of COVID-19: Challenges, Coping Strategies, and Opportunities for Transformation.	Teaching & Learning	01/12/2021

3-	Workshop: "McGrawHill Connect training "	Teaching & Learning	20/01/2021
4-	Workshop: "JOVE " on how to embed JOVE videos to Blackboard	Teaching & Learning	2/25/2021
5-	Workshop: "Best teaching Practices "	Teaching & Learning	01/10/2020
6-	Workshop: "Best teaching Practices: Getting the best of Blackboard "	Teaching & Learning	08/10/2020
7-	Workshop: "Best teaching Practices: Education and Technology "	Teaching & Learning	12/11/2020
8-	Workshop: "Best teaching Practices: Course Work and Exams "	Teaching & Learning	19/11/2020
9-	Workshop: "Best teaching Practices:Online Exams "	Teaching & Learning	26/11/2020
10-	Workshop: "Best teaching Practices "	Teaching & Learning	10/12/2020
11-	Workshop: "Best teaching Practices "	Teaching & Learning	21/01/2021
12-	Workshop: "Best teaching Practices "	Teaching & Learning	04/02/2021
13-	workshop:Best Teaching Practice "Task Stream"	Teaching & Learning	18/02/2021

14-	Training on the electrochemical techniques, the new machine purchased by the department	Teaching & Learning	11/14/2020
15-	Student Engagement at a Time of Change & Transformation	Teaching & Learning	20/10/2020
16-	Workshop on JOVE demo	Teaching & Learning	12/10/2020
17-	Workshop on How to conduct Successful online exam	Teaching & Learning	11/10/2020
18-	Workshop on Online exam settings and trouble shootings	Teaching & Learning	02/03/2021
19-	Grade center and online class attendance	Teaching & Learning	03/03/2021
20-	How to use second camera in ZOOM	Teaching & Learning	08/03/2021
21-	“Blackboard Collaborate with Ultra Experience”. The activity was initiated by introductory	Workshop entitled: Best Practices in Teaching	26 th Nov. 2020

	remarks from Dean Tabet. Then, Prof. Attaalmanan Gaffar, moderated the workshop and steered all discussions.		
22-	Faculty Advising Capacity-Building Champions Training	Advising	15 th of Feb. 2020

Department of Applied Biology			
No.	Development Event*	Development Area**	Description
1.	Online Training	Teaching & Learning	Hands on Hybrid-Learning Model. Institute of Leadership in Higher Education. Organized by Institute of Leadership in Higher Education. UoS Learning Environment Committee. August 25 th , 2021, Attended by: Prof. Ismail Saadoun, Dr. Mohammed Nasir Khan.
2.	Online Workshop	Teaching & Learning	Why Open Educational Resources (OER) are Essential for Hybrid Learning Rory McGreal , UNESCO/Commonwealth of Learning Chair holder in Open Educational Resources & Director, Technology Enhanced Knowledge Research Institute, Athabasca University, Canada. Organized by Institute of Leadership in Higher Education. UoS Learning Environment Committee. August 26 th , 2021. Attended by: Prof. Ismail Saadoun, Ms. Tasneem Obaid

			Online/Zoom https://sharjah-ac-ae.zoom.us/j/97115330610
3.	Online Forum	Research	The Second Forum for Women in Research, QUWA: Empowering Women in Research & Innovation, Organized by the Office of Vice Chancellor for. Research & Graduate Studies, August 26, 2021, Attended by: Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb,Uzma Inayat
4.	Online workshop	Teaching and Learning	Hybrid Hands on Training organized by the Institute of Leadership in Higher Education, on August 31, 2021, Attended by: Dr. Amir Khan, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb ,Uzma Inayat,Dr.Nasir khan
5.	Online Workshop	Teaching & Learning	Hybrid-Flexible (HyFlex) Instruction Supporting Student Success in Challenging Times and Beyond Brian Beatty , Department of Equity, Leadership Studies and Instructional Technologies & Former Vice President for Academic Affairs Operations, San Francisco State University, USA. Institute of Leadership in Higher Education. Organized by UoS Learning Environment Committee. August 31 st , 2021. Attended by: Prof. Ismail Saadoun, Tasneem Obaid Online/Zoom https://sharjah-ac-ae.zoom.us/j/98274111567
6.	Online Workshop	Teaching & Learning	Open Discussion on Hybrid-Flexi Model. Regulations, Polices, Logistics, Health Protocols. Sept. 2 nd , 2021. Attended by: Prof. Ismail Saadoun
7.	Webinar	Teaching & Learning	"Organic Farming" seminar series organized by the Linking Education and Farming "LEAF" Sustainability Circle. Organized by Sustainability Office, UoS. Sept. 8 th , 2021,

			Attended by: Prof. Ismail Saadoun, Ms. Tasneem Obaid
8.	Online Training	Research	SciVal for University of Sharjah Workshop. Presented by Wael Mansour Customer Consultant – RI. Organized by VCRFS Office/UoS. Sept. 15 th , 2021. Attended by: Prof. Ismail Saadoun, dr. Mohammed Nasir Khan, Ms. Tasneem Obaid
9.	Training	Teaching & Learning	10 th Biotechnology Students' Training. Sept. 23 rd , 2021. Online/Zoom https://sharjah-ac-ae.zoom.us/j/93232235768
10.	Orientation	Teaching & Learning	CoSc MSc. Students Orientation Day. Organized by CoSci. Sept. 23 rd , 2021. Online/Zoom https://bit.ly/2VBlz0C
11.	Advising	Teaching & Learning	CoSc Freshmen Students Academic Advising . Organized by College Advising Committee/CoSc . Sept. 26 th , 2021. Online/Zoom https://bit.ly/3lvVh8S
12.	Orientation	Teaching & Learning	Biotechnology Freshmen Students Orientation Day. Organized by DAB Students and Academic Advising Committees. Sept. 29 th , 2021
13.	Webinar	Research	Increasing your scientific productivity with ScienceDirect on Sep. 29th, 2021. Attended by Tasneem Obaid
14.	On-site training	Teaching and Learning	Scantron machine training organized by College of Sciences on September 30, Attended by: Racha Al-Khoury
15.	Training	Teaching & Learning	Biotechnology Summer Training. Organized by DAB/CoSci. Oct. 3 rd , 2021. Online/MS Teams
16.	Workshop	Teaching & Learning	ABET 2023 Accreditation. Organized by CoSci. Oct. 4 th , 2021. UoS/W8-Ibn Al Nafis Hall,

			Attended by: Prof. Ismail Saadoun, Dr. Mohammed Nasir Khan.
17.	Online training	Teaching and Learning	ProQuest One Academic, on Oct. 7th, 2021. Attended by Tasneem Obaid
18.	Online training	Teaching and Learning	"Designing Modules for Interactive Learning", organized by the Institute of Leadership in Higher Education on Oct. 10th, 2021. Attended by Ban Al-Joubori, Tasneem Obaid
19.	Online Workshop	Teaching & Learning	ورشة الإقتباس العلمي Organized by CGS. Oct. 13 th , 2021. Attended by: Prof. Ismail Saadoun . Online/MS Teams
20.	Online training	Teaching and Learning	"Waste Management" seminar of the "Organic Farming" seminar series organized by the Linking Education and Farming "LEAF" Sustainability Circle on Oct. 13th, 2021. Attended by Tasneem Obaid
21.	Online Workshop	Teaching & Learning	ورشة الإقتباس العلمي Use of "Turnitin" Software Organized by CGS. Oct. 14 th , 2021. Attended by: Prof. Ismail Saadoun. Online/MS Teams
22.	Webinar	Research	The 14th Research Café Talk: Leadership for the Greater Good, organized by The Office of Vice Chancellor for Research & Graduate Studies, on October 17, 2021, Attended by: Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid
23.	Online Workshop	Teaching & Learning	A research workshop: Pre-Award: Research Funding Opportunities. Grants and Guidelines. Dr. Chaouki Ghenai, Chairman of the Research Funding Department. Organized by VCRFS Office/UoS. Oct. 28 th , 2021. Attended by: Prof. Ismail Saadoun, Dr. Mohammed Nasir Khan, Dr. Ban Al-Joubori. Online/MS Teams
24.	Online training	Teaching and Learning	"Undergraduate Bylaws and Registration Policies" training session, conducted by

			registration department on Nov. 8th, 2021. Attended by Ban Al-Joubori, Tasneem Obaid
25.	Workshop	Teaching & Learning	2 nd Stress Relief Gathering. Organized by CoSci. Nov. 9 th , 2021. Online/Zoom
26.	Online Workshop	Teaching & Learning	دعوة للشراكة مع كلية الدراسات العليا في جامعة الشارقة Organized by VCRFS Office/UoS. Nov. 11 th , 2021. Attended by: Prof. Ismail Saadoun. Online/MS Teams
27.	Online training workshop	Research	Past, Current and Future Developments of Bioactive Glasses for Biomedical Applications Workshop. Workshop, organized by the Office of Vice Chancellor for Research & Graduate Studies on Nov. 17, 21. Attended by Islam Eltayeb
28.	Online Forum	Teaching & Learning	Leadership Forum (End of Year Performance Indicator). Organized by UoS. Nov. 18 th , 2021. Attended by: Prof. Ismail Saadoun. Online/MS Teams
29.	Online training	Teaching and Learning	Fostering Student Engagement and Learning using Kahoot!" organized by the Institute of Leadership in Higher Education on November 21st, 2021. Attended by Islam Eltayeb
30.	Meeting	Teaching & Learning	Fourth College of Sciences Advisory Board Meeting. Organized by CoSci. Nov. 23 rd , 2021. Online/Zoom
31.	Exhibition	Research	12th Biotechnology Students' Exhibition on Nov. 25th, 2021. Attended by Dr. Ban Al-Joubori, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
32.	Webinar	Research	CoS_MSc students' seminar series AY 2021-2022 organized by College of Sciences on November 28, 2021, Attended by: Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat

33.	Online workshop	Teaching and Learning	Administering and Troubleshooting Online Exams organized by Academic computing section on November 28, 2021, attended by Racha Al-Khoury, Islam Eltayeb ,Uzma Inayat
34.	Online conference	Research	9 th Pan Arab Human Genetics Conference organized by Center for Arab Genome Studies and Sheikh Hamdan Bin Rashed AlMaktoum Award for Medical Sciences on December 8 and , 2021, Attended by Racha Al-Khoury, Tasneem Obaid
35.	Online Conference	Teaching & Learning	3 rd UoS Annual Strategic Conference. Organized by UoS/ City Hall/Sharjah. Dec. 9 th , 2022. Attended by: Prof. Ismail Saadoun, Dr. Mohammed Nasir Khan, Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb ,Uzma Inayat
36.	Online training	Teaching and Learning	JoVE: Bringing Text to Life on Dec. 9th, 2021. Attended by Ban Al-Joubori, Tasneem Obaid, Islam Eltyeb
37.	Online Symposium	Teaching & Learning	Biotechnology Students' Research Project Defense. DAB/MSTeams. Dec. 20 th , 2021
38.	Online Workshop	Teaching & Learning	UoS Moving Forward in Graduate Student Research with Impact on Community. UoS. Dec. 22 nd , 2022. Attended by: Prof. Ismail Saadoun, Racha AL-Khoury, Islam Eltayeb, Uzma Inayat. Online: https://sharjah-ac-ae.zoom.us/j/94657688436
39.	Online meeting	Research	" Sharjah Meeting on Science Parks and Innovation" organized by the Office of the Vice Chancellor for Research and Graduates Studies through the Technology Transfer Office and the Research Outreach Department, on December 23, 2021, Attended by Ban Al—Joubori, Racha Al-Khoury, Tasneem Obaid

40.	Online Webinar	Research	Innovate with Merck organized by KGaA in Darmstadt, Germany. On Jan, 11, 2022 Attended by Islam Eltayeb
41.	Online Seminar	Seminar	تطور الكتابة التاريخية وأنواعها في الحضارة الإسلامية قدمها الأستاذ الدكتور أيمن فؤاد السيد Organized by the Libraries department, Jan, 14, 2022. Attended by Islam Eltayeb
42.	Online workshop	Teaching and Learning	Taskstream : Closing the loop organized by College of Sciences, on Jan. 19, 2022 Attended by Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb ,Uzma Inayat
43.	Online Seminar	Teaching & Learning	"Crime Scene, from Scene to Court". (Expert Colonel Naji Al-Hamadi). Organized by Dept. of Applied Biology/UoS in Collaboration with Police Dept./Sharjah Forensic Lab. Feb. 3 rd , 2022. Attended by: Prof. Ismail Saadoun. Blackboard Ultra
44.	Online Workshop	Teaching & Learning	Executive Regulations of Graduate Studies at UoS-Master Programs. Organized by CGS. Feb. 7 th , 2022. Attended by: Prof. Ismail Saadoun. Online/MS Teams
45.	Online Workshop	Teaching & Learning	Stotrytelling/Prof. Essam Al Najdy Libraries Department/UoS. Feb. 7 th , 2022. Attended by: Prof. Ismail Saadoun. Online/MS Teams
46.	Webinar	Research	15 th Research Café Talk titled "Empowering Pandemic Response and Connected Health using AIoT" organized by Research Outreach Department on Feb. 7, 2022, Attended by Racha AL-Khoury, Tasneem Obaid
47.	Online training	Teaching and Learning	"The Art of Designing Learning Activities" workshop, organized by the Institute of Leadership in Higher Education on Feb. 7, 2022. Attended by Tasneem Obaid, Islam Eltayeb, Uzma Inayat

48.	Online training	Teaching and Learning	Online Training Taylor & Francis eBooks at the University of Sharjah on February 8th, 2022. Attended by Tasneem Obaid
49.	Online training	Teaching and Learning	المحاضرة الافتراضية " التلعيب كاستراتيجية عالمية لتطوير التعليم"، عقدت في 19 ابريل on Feb. 9, 2022, Attended by Tasneem Obaid .2022
50.	Webinar	Teaching and Learning	دور الأدلة الجنائية و البصمة الوراثية في إثبات البراءة organized by students affairs, UoS, Althaid Branch, on Feb. 9, 2022, Attended by Racha Al-khoury, Tasneem Obaid
51.	Online Workshop	Teaching and learning	Labster Lab simulation training organized by academic computing section on Feb. 10, 2022, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb ,Uzma Inayat
52.	Online Workshop	Teaching & Learning	Executive Regulations of Graduate Studies at UoS-PhD Program. CGS. Feb. 14 th , 2022. Attended by: Prof. Ismail Saadoun. Online/MS Teams
53.	Training	Teaching & Learning	1st Biotechnology Students' Summer Training Meeting . DAB/CoSci/UOS. Feb. 14 th , 2022. Zoom
54.	Online training	Teaching and Learning	"Alternatives to Traditional Assessment" workshop, organized by the Institute of Leadership in Higher Education on Feb. 14, 2022. Attended by Tasneem Obaid, Islam Eltayeb, Uzma Inayat
55.	Online Seminar	Seminar	برامج الدكتوراه بجامعة الشارقة: من القبول إلى نيل الشهادة College of Higher Education on Feb 14, 2022. Attended by Islam Eltayeb.
56.	Online Symposium	Teaching and Learning	Symposium on High Impact Educational Practices organized by KFUPM - Deanship of Academic Development on February 15 -16, 2022. Attended by Racha AL-Khoury, Tasneem Obaid, Islam Eltayeb

57.	Webinar	Research	Connect_CoS Seminar series organized by College of Sciences on Feb. 17, 2022, Attended by Ban Al-Joubori, Racha Al-Khoury, Islam Eltayb
58.	Online workshop	Teaching and learning	"Taskstream: Closing the Loop" organized by Co.Sci on Feb19, 2022, Attended by Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb
59.	Webinar	Research	The 16 th Research Café Talk: Work-Life Balance in Academia: Fact or Fiction organized by Office of Vice Chancellor for Research & Graduate Studies on Feb. 21, 2022, Attended by Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
60.	Online training	Teaching and Learning	"Unlock Your Creative Potential" WORKSHOP, organized by the Institute of Leadership in Higher Education on February 22nd, 2022. Attended by Tasneem Obaid, Uzma Inayat
61.	Webinar	Research	"Physics at the Large Hadron Collider" Seminar on February 23rd, 2022. Attended by Tasneem Obaid
62.	Online Workshop	Teaching & Learning	3 rd Teaching & Learning Forum "Innovative pedagogies for authentic learning and employability" UoS Institute of Leadership in Higher Education. Feb. 24 th , 2022. Attended by: Prof. Ismail Saadoun via Zoom
63.	Conference	Conference, Research	4th International Multiconferences in Advances in Science and Engineering Technology (ASET). Conference organized by the Higher college of Technology on Feb 21-24. Attended by Islam Eltayeb
64.	Online Meeting	Teaching & Learning	Interpol Biosecurity Initiative. National Biosecurity Working group Meeting for UAE.

			Feb 23 rd —24 th , 2022. KADO. Attended by: Prof. Ismail Saadoun https://live.kudoway.eu/ad/220219646817
65.	Online training	Teaching and Learning	Training workshop (3 hours) "3rd Annual Teaching & Learning Forum", organized by the institute of Leadership in Higher Education on February 24th, 2022. Attended by Tasneem Obaid, Islam Eltayeb
66.	Continuing Medical Education	CME	10th Annual Basic and Clinical Immunology for the Busy Clinician. Organized by The Cleveland Clinic Foundation Center for Continuing Education on February 26 - 27, 2022. Attended by Islam Eltayeb
67.	Online workshop	Teaching and learning	Administering and Troubleshooting Online Exams organized by academic computing section on March 1, 2022. Attended by Racha Al-Khoury
68.	Online workshop	Teaching and learning	Designing Grading Rubrics - Fair, Consistent, And Efficient organized by Institute of Leadership in Higher Education on March 1, 2022, Attended by Racha Al-Khoury
69.	Webinar	Research	College of Sciences serving the community organized by Co. Sci. On March 3, 2022, Attended by Racha Al-Khoury
70.	Webinar	Teaching & Learning	<i>DNA Role in Forensic Science. Expert Salem Al Khayyal. Sharjah Forensic Lab. March 3rd, 2022.</i> Attended by: Prof. Ismail Saadoun
71.	Online Workshop	Teaching & Learning	<i>Research at UoS: "Opportunities, Grants and Expectations".</i> The Office of VCRGS. March 3 rd , 2022. Attended by: Prof. Ismail Saadoun, Dr. Mohammed Nasir Khan, Online/MS Teams
72.	Webinar	Research	"Puzzling Particles" by Prof. John Ellis, organized by Department of Applied Physics, Co.Sci, on March 8, 2022, Attended by Ban Al-Joubori, Racha Al-Khoury

73.	On site public Event	Research	Sharjah UAE Innovation Month organized by Sharjah Government and UAE Innovates on March 10-14, 2022 Attended by Racha Al-Khoury, Islam Eltayb, Uzma Inayat
74.	Hybrid Conference	Teaching & Learning	The Sharjah International Conference on EDUCATION IN POST COVID-19 (SHJ-Edu2022). March 14t, 2022. UoS. Attended by: Prof. Ismail Saadoun, Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat. Zoom
75.	Online Workshop	Teaching & Learning	Research Fair Talk # 1: “Link your Thesis to Community Challenges”. CGS. March 14t, 2022. Attended by: Prof. Ismail Saadoun. Online/MS Teams
76.	Seminar	Teaching & Learning	Role of Biotechnology in Modern Society. President of Republic of Estonia, Dr. Alar Kares. UoS Chancellor Office. March 14t, 2022. UoS/Al Bayrouni Hall, M9, Attended by: Prof. Imsail Saadoun, Tasneem Obaid, Islam Eltayeb.
77.	Training	Teaching & Learning	2 nd Biotechnology Students’ Summer Training Meeting. DAB/CoSci/UOS. March 23 rd , 2022. Zoom
78.	Alumni Meeting	Teaching & Learning	2 nd Biotechnology Alumni Meeting “DAB Alumni: Let’s get together”. DAB/CoSci/UOS. March 24 th , 2022. Zoom
79.	Online Press Conference	Research	The Online Press Conference for Launching The 3rd Forum for Women in Research “Quwa: Women Empowerment for Global Impact” organized by Research outreach department at UoS on March 29, 2022, Attended by Racha Al-Khoury
80.	Webinar	Research	“Still Searching for planet X” Seminar on April 6 th , 2022. Attended by Tasneem Obaid.
81.	Webinar	Research	UAE Native Plants: Unique applications in chemistry, Pharmacology and Biotechnology

			organized by DAB, Co. Sci. On April 11, 2022, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb
82.	Webinar	Research	The 17th Research Café Talk: Responsible Conduct of Research: Clinical versus Pre-clinical Research organized by Office of Vice Chancellor for Research & Graduate Studies on April 18, 2022, Attended by Ban Al-Joubori, Racha Al-Khoury, Islam Eltayeb
83.	Webinar	Teaching and learning	Distance learning and Assessment methods, organized by College of Sciences on April 20, 2022, Attended by Prof. Ismail, Dr. Ban Al-Joubori, Racha Al-Khoury, Islam Eltayeb, Uzma Inayat
84.	Webinar	Teaching & Learning	Role of Forensic Odontology in Criminal Investigations & Disaster Victim Identification. Dr. Suhil Alamad/College of Dentistry. DAB. BB Ultra. April 21 st , 2022. Attended by Prof. Ismail Saadoun
85.	Online Workshop	Teaching & Learning	Your Guide to Scopus Journals. Research Workshop. Prof. Maamar Bettayeb. The Office of VCRGS. April, 25 th , 2022. Attended by Prof. Ismail Saadoun, Dr. Nasir Khan, Racha Al-Khoury, Tasneem Obaid
86.	Online workshop	Research	Simulation workshop organized by the Department of Chemistry, Co.Sci on April 25, 2022, Attended by Racha Al-Khoury, Islam Eltayeb, Uzma Inayat
87.	Seminar	Teaching & Learning	Biotechnology Students' Research Project Defense. DAB/W8-006. May 17 th , 2022
88.	Forum	Teaching & Learning	14 th UoS Research Forum. The Office of VCRGS. May 18 th , 2022
89.	Meeting	Teaching & Learning	4 th College of Sciences Advisory Board
90.	Webinar	Research	Connect_CoS Seminar Series organized by College of Sciences in Fall and Spring 21-22,

			Attended by: Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
91.	Online training	Teaching & Learning	Autoclave Safety (Microlearning) organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
92.	Online training	Teaching & Learning	Basic first aid, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
93.	Online training	Teaching & Learning	BLOODBORNE PATHOGENS FOR RESEARCH AND CAMPUS ACTIVITIES, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
94.	Online training	Teaching & Learning	Central Labs Safety Orientation, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
95.	Online training	Teaching & Learning	Cryogenic Safety, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
96.	Online training	Teaching & Learning	Driver Safety, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
97.	Online training	Teaching & Learning	GLASS HANDLING AND BREAKAGE FOR LABORATORIES, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
98.	Online training	Teaching & Learning	Office Safety, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltyeb, Uzma Inayat
99.	Online training	Teaching & Learning	Organic Peroxide Awareness, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
100.	Online training	Teaching & Learning	REACTIVES IN LABORATORY AND RESEARCH FACILITIES, organized by Central labs at UoS,

			Attended by Racha Al-Khoury, Tasneem Obaid, Uzma Inayat
101.	Online training	Teaching and Learning	Working with Animals in Research, organized by Central labs at UoS, Attended by Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat
102.	Online workshop	Training	Cyber security assignment: Data Protect Attended by Islam Eltayeb
103.	Seminar	Seminar	Enjoy the Multicultural Environment in UOS” by Prof. Elsiddig Elsheikh Seminar organized by the college of sciences social committee Attended by Islam Eltayeb, Uzma Inayat
104.	Online training workshop	Teaching & learning	“Blackboard Assignment Tool and Rubrics” Organized by :UOS Institute of Leadership in Higher Education. Attended by Racha Al-Khoury, Islam Eltayeb
105.	Online workshop	Workshop	جائزة خليفة التربوية الجلسة الحوارية - عن بعد بعنوان " إكسبو جسر للتواصل الحضاري العالمي " وذلك ضمن فعاليات الدورة الخامسة عشرة 2/2021 Attended by Islam Eltayeb
106.	Online workshop	Workshop	الاقتباس: أنواعه وكيفية تجنبها " ورشة العمل تحت عنوان التي عقدت بتاريخ 28/ 02/ 2022 من الساعة 4: 00 حتى 6:00 مساء Organized by the College of Graduate Studies. Attended by Islam Eltayeb
107.	Postgraduate non-thesis Research Project Defense Day	Teaching & Learning	M.Sc. in Biotechnology Research Projects Defense for Spring 2021-2022 May 21, 2022 Attended by DAB faculty members
108.	Online Webinar	Collaboration & Research Opportunities	Research Fair Webinar Series; 3rd Talk: Fujairah Research Center May 19, 2022
109.	Online Wrokshop	Teaching & Learning	كيف تحدد جيناتك نوعية غذائك ودوائك Dec. 12, 2021

			Attended by Ban Al-Joubori
110.	Online Workshop	Teaching & Learning	Launch of Lab Purchase Feb. 14, 2022 Attended by Ban Al-Joubori
111.	Online workshop	Teaching & Learning	محاضرة كيف تكون شخصاً مؤثراً Feb. 17, 2022 Attended by: Ban Al-Joubori
112.	Seminar	Teaching & Learning	"كلية العلوم بجامعة الشارقة في خدمة المجتمع" March 3, 2022 Attended by: Ban Al-Joubori
113.	Summit	Teaching & Learning	Knowledge Summit 2022, Govt. of Dubai Attended by: Ban Al-Joubori
114.	Seminar	Teaching & Learning	صيام رمضان في ميزان البحث العلمي Attended by: Ban Al-Joubori
115.	Seminar	Teaching & Learning	"UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology" Seminar. Attended by: Ban Al-Joubori
116.	Workshop	Teaching & Learning	دعوة لحضور ورشة بحثية بعنوان: البحث العلمي في جامعة الشارقة: الفرص والمنح والتوقعات April 14, 2022 Attended by: Ban Al-Joubori
117.	Seminar		M.Sc. in Biotechnology Research Projects Defense for Spring 2021-2022 May 21, 2022

No.	Development Event*	Development Area**	Description
1	Seminars-Webinar (MZ)	Research	International Webinar on "Mathematical Modelling in the Era of AI" on 06/08/2020 and 07/08/2020, organized by National School of Applied Sciences Of Fez (ENSAF), Morocco.

2	Webinar (MZ)	Teaching & Research	The 5th research café “Creativity 4 the 4th IR Oct 4th, 2020
3	Webinar(MZ)	Research	The 6th research café “The power and challenges of interdisciplinary Research ” Nov 1st , 2020
4	Webinar (MZ)	Research	The research café “Research at Uos: Opportunities, Grants and Expectations” Nov. 8th, 2020
5	Webinar(MZ)	Research	The 7th research café The exit of oil age Dec 6th, 2020
6	Webinar (MZ)	Research	The 8th research café “تحديات البحث العلمي في الدراسات القانونية” Jan 17th, 2021
7	Workshop(MZ)	Research	Advanced Research Trends in Artificial Intelligence, Pattern Recognition and Image Processing September 25-30, 2020
8	Workshop(MZ)	Research	4th SIFHAMS International Scientific Forum Distinguished Domains in the Oriental Sciences Thursday, 22nd October 2020
9	Workshop(MZ)	Teaching & Learning	“Student Engagement at a Time of Change & Transformation” organized by the Institute of Leadership in Higher Education October 20th, 2020
10	Workshop(MZ)	Research	Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development October 26- November 7, 2020
11	Workshop(MZ)	Education and professional development	19/20 Leadership Forum (End-of-Year Performance Indicators) Towards Sustainable Innovative and Smart Education Opportunities”

1	Workshop(MZ)	Research	المدرسة الشتوية الدولية لطلبة الدراسات العليا 10-16 jan 2021
1	Webinar(MZ)	Research	برامج الدكتوراه بجامعة الشارقة: من القبول إلى That was held on 01/03/2021
1	Webinar(MZ)	Research	The 10th research café AL and Arabic language Processing Mar. 7th, 2021
1	Webinar (MZ)	Teaching & Research	organizer of “The first Mathematics - Gathering: MG1” on Tuesday 23 of February at 3:30 PM at the Department of Mathematics, University of Sharjah.
1	Webinar(MZ)	Research	scientific talk lecture on Tuesday 13th Oct, 2020 from 15:30 to 16:30 at the Department of Mathematics, University of Sharjah
1	Webinar (MZ)	Research	The 11th research café تأثير كوفيد 19 على البحث العلمي في العلوم الانسانية Apr 4th, 2021
1	Seminars- Webinar (SM)	Research	7 Seminar In the Analysis and Methods of PDE (SIAM PDE)
1	Seminars- Webinar(SM)	Research	Many Springer Nature Weekly seminars
2	Seminars- Webinar(SM)	Research	Many CAA Online Seminar Series
2	Contact North Webinar(SM)	Teaching & Learning	23 seminars about online and distance learning
2	KFUPM Reporting week Webinars(SM)	Teaching & Learning	13 seminars about online and distance learning

2	REMOTE Conf. (SM)	Teaching & Learning	The Connected Faculty Teaching Summit
2	CISCO Webinar(SM)	Teaching & Learning	Moving your courses online in 48 hours
2	UoS Webinar(SM)	Teaching & Learning	معايير النجاح الأكاديمي
2	UoS Webinar(SM)	Teaching & Learning	الإرشاد الأكاديمي أفضل الممارسات العالمية
2	UoS IT(SM)	Teaching & Learning	Grade Center and Attendance
2	UoS IT(SM)	Teaching & Learning	Using Zoom and MS as a Second Camera for invigilating Online Exams.
2	UoS IT(SM)	Teaching & Learning	Using Zoom and MS Teams as a Second Camera for invigilating Online Exams.
3	Institute . Of Leadership webinar(SM)	Teaching & Learning	Hands on Educational Games to Strengthen the Quality of Course Delivery & Student Engagement in Online Classes
3	Workshop	Teaching & Learning	Moving your courses online in 48 hours
3	Springer Nature(SM)	Teaching & Learning	Introduction to Open access Workshop at UoS
3	Springer Nature(SM)	Teaching & Learning	Academic Publishing and Enhancing Research
3	Springer Nature(SM)	Teaching & Learning	How to prepare a successful paper?

3	Workshop (BH)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
3	Workshop(BH)	Teaching	Student Engagement at a Time of Change & Transformation organized by ICT, UoS
3	Seminars(BH)	Research	The exit of the Oil age
3	Seminars(BH)	Research	The Power and Challenges of Interdisciplinary Research
3	Seminars(BH)	Research	Creativity 4 The 4th IR
4	Workshop(BH)	Teaching	Explore Blackboard ULTRA, organized by ICT, UoS
4	Workshop(BH)	Teaching	Online Exam and Grade Center organized by ICT, UoS
4	Workshop(BH)	Teaching	Participation & Engagement Tools, organized by ICT, UoS
4	Workshop(BH)	Teaching	Blackboard Assignment Tool, Rubrics and Attendance, organized by ICT, UoS
4	Workshop(BH)	Teaching	Best Teaching Practices, organized by College of Sciences, UoS
4	Workshop(BH)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
4	Workshop(ZR)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
4	Workshop(ZR)	Teaching	Student Engagement at a Time of Change & Transformation organized by ICT, UoS
4	Seminars(ZR)	Research	The exit of the Oil age
4	Seminars(ZR)	Research	The Power and Challenges of Interdisciplinary Research

5	Seminars(ZR)	Research	Creativity 4 The 4th IR
5	Workshop(ZR)	Teaching	Explore Blackboard ULTRA, organized by ICT, UoS
5	Workshop(ZR)	Teaching	Online Exam and Grade Center organized by ICT, UoS
5	Workshop(ZR)	Teaching	Participation & Engagement Tools, organized by ICT, UoS
5	Workshop(ZR)	Teaching	Blackboard Assignment Tool, Rubrics and Attendance, organized by ICT, UoS
5	Workshop(ZR)	Teaching	Best Teaching Practices, organized by College of Sciences, UoS
5	Workshops(AS)	International relations and Ranking	International Webinar organized by Times higher education 2020 and 2021.
5	Workshops(AS)	Teaching & Learning	Online teaching practices.
5	Conferences(AS)	Research	Plenary talks in international conferences.
5	Training(FG)	Teaching and Learning	Blackboard LMS & Its Tools for Teaching & Learning.
6	Training(FG)	Teaching and Learning	Distance Learning and online exams
6	Workshop (FG)	Teaching	Workshop on Mylab Math demo workshop by Pearson's
6	Training(AT)	Teaching and Learning	Administering and Troubleshooting Online Exams
6	Workshop(AT)	Research	Post-award: Research Funding Opportunities – Grants and Guidelines
6	Workshop (AT)	Teaching	Workshop on Mylab Math demo workshop by Pearson's

6	Workshop(AT)	Teaching	Hands on Educational Games to Strengthen the Quality of Course Delivery& Student Engagement in Online Classes
6	Workshop(AT)		IT Orientation Day: English Workshops
6	Workshop(MI)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
6	Workshop(MI)	Teaching	Student Engagement at a Time of Change & Transformation organized by ICT, UoS
6	Seminars(MI)	Research	The exit of the Oil age
7	Seminars(MI)	Research	The Power and Challenges of Interdisciplinary Research
7	Seminars(MI)	Research	Creativity 4 The 4th IR
7	Workshop(MI)	Teaching	Explore Blackboard ULTRA, organized by ICT, UoS
7	Workshop(MI)	Teaching	Online Exam and Grade Center organized by ICT, UoS
7	Workshop(MI)	Teaching	Participation & Engagement Tools, organized by ICT, UoS
7	Workshop(MI)	Teaching	Blackboard Assignment Tool, Rubrics and Attendance, organized by ICT, UoS
7	Workshop(MI)	Teaching	Best Teaching Practices, organized by College of Sciences, UoS
7	Workshop(MI)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
7	Workshop(MI)	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS

7	Workshop(MB)	Teaching	Best Teaching Practices, organized by College of Sciences, Uos
8	Seminars(MB)	Research	The exit of the Oil age
8	Workshop(MB)	Research	How to Supervise PhD Students
8	Workshop(MB)	Education	Student Engagement at a Time of Change & Transformation
8	Workshop(MB)	Teaching	Participation and Engagement tools
8	Workshop(MB)	Research	Research at Uos: Opportunities, Grand and Expectations
8	Workshop(MB)	Teaching	Integrative Learning Experience-Backward Course Design Model
8	Workshop(MB)	Teaching	Administering and troubleshooting Online Exams
8	Workshop(MB)	Research	How to Manage your citations using Mendeley
8	Workshop(MB)	Research	The Power and Challenges of Interdisciplinary Research
8	Workshop	Teaching	Successful Online Exams: The Faculty Perspectives organized by ICT, UoS
9	Workshop	Teaching	Student Engagement at a Time of Change & Transformation organized by ICT, UoS
9	Seminars	Research	The exit of the Oil age
9	Seminars	Research	The Power and Challenges of Interdisciplinary Research
9	Seminars	Research	Creativity 4 The 4th IR
9	Workshop	Teaching	Explore Blackboard ULTRA, organized by ICT, UoS
9	Workshop	Teaching	Online Exam and Grade Center organized by ICT, UoS

9	Workshop	Teaching	Participation & Engagement Tools, organized by ICT, UoS
9	Workshop	Teaching	Blackboard Assignment Tool, Rubrics and Attendance, organized by ICT, UoS
9	Workshop	Teaching	Best Teaching Practices, organized by College of Sciences, UoS
9	On line Conference	AAA100	Conference on General Algebra, February 2021. The 100 edition of the AAA conference was held online and was organised by the Theoretical Computer Science Department in the Faculty of Mathematics and Computer Science of the Jagiellonian University in Kraków, Poland.

Department of Applied Physics and Astronomy			
No	Development Event*	Development Area**	Description
1	Workshop	Teaching & Learning	
2	Workshop	Best online teaching practices	Priming effects on cognitive ease and strain
3	Workshop	Best Practicing for Online teaching	Building your course in BB for Online teaching

4	Workshop	Best Practicing for Online teaching	Building your course in BB for Online teaching
5	Workshop	From University Research to impactful and patentable world	Presentation on how to make your research visible and in case of a patent patentable
6	Workshop	IT	Training session to Explore Respondus 4.0 Exam Generator
7	Workshop	IT	Creating Interactive Presentation using Nearpod to Increase Student Engagement & Motivation
8	Workshop	IT	Explore Blackboard ULTRA Course
9	Workshop	IT	IT Orientation Day and Building your course in BB for Online teaching
10	Webinar	Teaching & Learning	How to Teach Online Effectively Using Zoom. Teachonline.ca
11			

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

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

Self evaluation of Faculty Development Activities

Awards and Prizes

Department of Chemistry			
No.	Prize Name	Awarded To	Awarded By
1.	Appreciation award from the COS	Ihsan Shehadi	Deanship of the College of Sciences

Department of Applied Biology			
No.	Prize Name	Awarded To	Awarded By
1.	First place of the "Rashid bin Humaid Award for Culture and Science", in the field of environmental sciences	Dr. Kareem Mosa	Rashid bin Humaid Award for Culture and Science
2.	Deanship Appreciation Award	Mrs. Racha Al Khoury	CoSci
3.	Deanship Promotion Award	Dr. Kareem Mosa	CoSci
4.	Chairman Appreciation Award	Prof. Elsiddig Elsheikh	CoSci/DAB
5.	Chairman Appreciation Award	Ms. Tasnim Obaid	CoSci/DAB
6.	Chairman Appreciation Award	Mrs. Aisha Echitibi	CoSci/DAB

Department of Mathematics			
No.	Prize Name	Awarded To	Awarded By
4.	TOP DOWNLOADED PAPER 2018-2019 (Certificate)	Salim Messaoudi	<u>Wiley</u>
5.	Appreciation letter	Firas Ghanim Ahmed	McGraw Hill
6.	Award of Best performing faculty	Firas Ghanim Ahmed	Department of Mathematics, College of Sciences

Department of Applied physics and Astronomy			
No.	Prize Name	Awarded To	Awarded By

1.	Certificate of excellence: excellence in research	Dr Mounir Kaidi	Department of Applied physics, College of Sciences
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Certificates (please give examples)

Department of Chemistry			
No.	Prize Name	Awarded To	Awarded By
7.	Online Exams Setting and Troubleshooting	Dr. Ahmed Almehti	Academic Computing, IT center

Department of Applied Biology			
No.	Prize Name	Awarded To	Awarded By
1.	Certificate of attendance "The 3rd Annual Strategic Plan Conference"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat,	University of Sharjah
2.	Certificate of attendance "9th Pan Arab Human Genetics Conference"	Racha Al-Khoury, Tasneem Obaid	Sheikh Hamdan Bin Rashid ALMaktoum Award For Medical Sciences and Center for Arab Genomic Studies
3.	Certificate of attendance 15 th Research Café " Empowering Pandemic Response and Connected Health Using ALoT"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid	The Office of the Vice Chancellor for Research and Graduate Studies/UOS
4.	Certificate of attendance 16 th Research Café "Work-Life Balance in Academia: Fact or Fiction	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat	The Office of the Vice Chancellor for Research and Graduate Studies/UOS

5.	Certificate of attendance 17 th Research Café "Responsible Conduct of Research: CLinical versus Pre- Clinical Research	Ban Al-Joubori, Racha Al- Khoury	The Office of the Vice Chancellor for Research and Graduate Studies/UOS
6.	Certificate of attendance دور الأدلة الجنائية والبصمة الوراثية في إثبات البراءة	Racha Al-Khoury, Tasneem Obaid	Althaid Branch, Students Affairs/UOS
7.	Certificate of Recognition "12th Biotechnology Students' Exhibition"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Department of Applied Biology/UOS
8.	Certificate of Completion Autoclave Safety (Microlearning)	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Central Laboratories/UOS
9.	Certificate of Completion "Basic First Aid"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Central Laboratories/UOS
10.	Certificate of Completion " BLOODBORNE PATHOGENS FORRESEARCH AND CAMPUS ACTIVITIES"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Central Laboratories/UOS
11.	Certificate of Completion " CENTRAL LABS SAFETY ORIENTATION"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat	Central Laboratories/UOS
12.	Certificate of Completion " CHEMICAL STORAGE IN LABORATORIESAND RESEARCH FACILITIES"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Central Laboratories/UOS
13.	Certificate of Completion "Cryogenic Safety"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid	Central Laboratories/UOS
14.	Certificate of Completion "Driver Safety"	Ban Al-Joubori, Racha Al- Khoury, Tasneem Obaid,	Central Laboratories/UOS

		Uzma Inayat, Islam Eltayeb	
15.	Certificate of Completion " GLASS HANDLING AND BREAKAGE FOR LABORATORIES"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat	Central Laboratories/UOS
16.	Certificate of Completion "Office Safety"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat Islam Eltayeb	Central Laboratories/UOS
17.	Certificate of Completion "Organic Peroxide Awareness"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat	Central Laboratories/UOS
18.	Certificate of Completion " REACTIVES IN LABORATORY AND RESEARCH FACILITIES"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat	Central Laboratories/UOS
19.	Certificate of Completion "Working with Animals in Research"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Central Laboratories/UOS
20.	Certificate of Appreciation "Contribution to the Success of the On-Campus Examinations during Fall21-22 Midterm Exams"	Racha Al-Khoury, Tasneem Obaid, Uzma Inayat, Isam Eltayeb	Dean of Academic Support Services/UOS
21.	Certificate of Participation "High Impact Educational Practices"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb	King Fahad University of Petroleum and Minerals
22.	Certificate of Completion " Hybrid Learning: Hands-on Training"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Institute of Leadership in Higher Education/UOS
23.	Certificate of Attendance " Sharjah Meeting on Science Parks and Innovation"	Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	The Office of the Vice Chancellor for Research and Graduate Studies/UOS

24.	Certificate of Recognition For the contribution to the success of "The Sharjah International Conference on Education in Post COVID-19"	Racha Al-Khoury	University of Sharjah
25.	Certificate of Appreciation "UAE Innovation Month in Sharjah 2022"	Racha Al-Khoury	Sharjah UAE Innovation Committee
26.	Certificate of Attendance "UoS is Moving Forward in Graduate Students Research with Impact on Community"	Racha Al-Khoury, Uzma Inayat, Islam Eltayeb	The Office of the Vice Chancellor for Research and Graduate Studies
27.	Certificate of Attendance "The Sharjah International Conference on Education in Post COVID-19"	Ban Al-Joubori, Tasneem Obaid, Uzma Inayat, Islam Eltayeb	University of Sharjah
28.	Certificate of Attendance "Designing Modules for Interactive Learning".	Ban Al-Joubori, Tasneem Obaid	Institute of Leadership in Higher Education/UOS
29.	Certificate of Attendance "Waste Management" seminar of the "Organic Farming" seminar series	Tasneem Obaid	Linking Education and Farming "LEAF" Sustainability Circle
30.	Certificate of Attendance "JoVE: Bringing Text to Life"	Ban Al-Joubori, Tasneem Obaid	Journal of Visualized Experiments
31.	Certificate of completion "The Art of Designing Learning Activities" workshop	Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Institute of Leadership in Higher Education/UOS
32.	Certificate of Attendance "Alternatives to Traditional Assessment" workshop"	Tasneem Obaid, Uzma Inayat, Islam Eltayeb	Institute of Leadership in Higher Education/UOS
33.	Certificate of Attendance ""Unlock Your Creative Potential" WORKSHOP	Tasneem Obaid, Uzma Inayat	Institute of Leadership in Higher Education/UOS

34.	Certificate of Attendance Training workshop “3rd Annual Teaching & Learning Forum”	Tasneem Obaid	Institute of Leadership in Higher Education/UOS
35.	Certificate of Attendance “Online Training Taylor & Francis eBooks”	Tasneem Obaid	Taylor & Francis eBooks
36.	Certificate of Attendance "Physics at the Large Hadron Collider" Seminar	Tasneem Obaid	Sharjah Academy for Astronomy, Space Sciences, and Technology (SAASST)
37.	Certificate of Attendance Training workshop “Emerging Trends in Hybrid & Flexible Student-Centered Learning- Hybrid-Flexible (HyFlex) Instruction Supporting Student Success in Challenging Times and Beyond”	Tasneem Obaid	UOS/Institute of Leadership in Higher Education
38.	Certificate of Attendance Training workshop “Emerging Trends in Hybrid & Flexible Student-Centered Learning- Why open Educational Resources (OER) are Essential for Hybrid Learning”	Tasneem Obaid	Institute of Leadership in Higher Education/UOS
39.	Certificate of Attendance ““Still Searching for planet X” Seminar”	Tasneem Obaid	Sharjah Academy for Astronomy, Space Sciences, and Technology (SAASST)
40.	Certificate of Attendance "المحاضرة الافتراضية " التلعيب " "كاستراتيجية عالمية لتطوير التعليم"	Tasneem Obaid	UoS
41.	Certificate of Attendance "Organic Farming" seminar series	Tasneem Obaid	Linking Education and Farming “LEAF” Sustainability Circle

42.	Certificate of Attendance "ProQuest One Academic"	Tasneem Obaid	Library Department/UOS
43.	Certificate of Attendance "Increasing your scientific productivity with ScienceDirect"	Tasneem Obaid	ScienceDirect and UoS Library
44.	Certificate of Attendance" SciVal for University of Sharjah"	Tasneem Obaid	University of Sharjah
45.	Certificate of Attendance "Undergraduate Bylaws and Registration Policies" training session	Ban Al-Joubori, Tasneem Obaid	Registration Department/UOS
46.	Certificate of completion "Fostering Student Engagement and Learning using Kahoot!"	Uzma Inayat, Islam Eltayeb	UOS/Institute of Leadership in Higher Education
47.	Certificate of Attendance "Your Guide to Scopus Journals"	Tasneem Obaid, Racha Al-Khoury	Office of Vice Chancellor for Research & Graduate Studies
48.	Certificate of Appreciation on the contribution to the success of the orientation day and the exhibition of the scientific societies, EXPO 2020,	Islam Eltayeb	Uos, Students Affairs
49.	Certificate of participation (Author) on the 4th International Multiconferences in Advances in Science and Engineering Technology (ASET)	Islam Eltayeb	Higher colleges of Technology
50.	Certificate of Participation CME, on 10th Annual Basic and Clinical Immunology for the Busy Clinician.	Islam Eltayeb	Cleveland Clinic Foundation Center for Continuing Education

51.	Certificate of Participation الجلسة الحوارية - عن بعد بعنوان " إكسبو جسر للتواصل الحضاري العالمي " وذلك ضمن فعاليات الدورة الخامسة عشرة 2021/2	Islam Eltayeb	جائزه خليفه التربويه
52.	Certificate of Participation الاقتباس: أنواعه وكيفية تجنبها	Ban Al-Joubori, Islam Eltayeb	College of Graduate Studies/UOS
53.	Certificate of Participation برامج الدكتوراه بجامعة الشارقة: من القبول إلى نيل الشهاده	Islam Eltayeb	College of Graduate Studies/UOS
54.	تطور الكتابة التاريخية وأنواعها في الحضارة الإسلامية قدمها الأستاذ الدكتور أيمن فؤاد السيد	Islam Eltayeb	Library Department/UOS
55.	Certificate of Participation غذائك نوعية جيناتك تحدد كيف ودوائك	Ban Al-Joubori	Health Promotion/ Sharjah municipality
56.	Certificate of Participation مؤثرا شخصياً تكون كيف محاضرة	Ban Al-Joubori	Student Affairs/UoSdevelopment

Department of Mathematics			
No.	Prize Name	Awarded To	Awarded By
11.			

Department of Applied Physics and Astronomy			
No.	Prize Name	Awarded To	Awarded By

1	Appreciation	Bassam Rashed	Dean College of Sciences
2	Trophy	Bassam Rashed	Chancellor
3	Appreciation Certificate (PhET teacher community)	Moh'd Mansour	PhET (University of Colorado) (Attached)
4	Appreciation Certificate (PhET teacher community around the world)	Moh'd Mansour	PhET (University of Colorado) (Attached)
5	Appreciation Letter	Prof. Nouar Tabet & Moh'd Mansour	DEWA (Solar Innovation Center)
6	Trophy	Nawal Nayfeh	Chancellor
7	Appreciation	Nawal Nayfeh	Dean College of Sciences
8	Appreciation	Nawal Nayfeh	Chancellor
9	Appreciation	Attaelmanan	Sharjah Police
10	Appreciation	Tahani Sarayreh	Dean College of Sciences
11	Appreciation Letter	Omar Adwan	Dean, College of Sciences
12	Appreciation Letter	Omar Adwan	Chancellor, University of Sharjah
13	Trophy	Omar Adwan	Chancellor, University of Sharjah
14	Appreciation Letter	Omar Adwan	Sharjah Archeology Authority - Government of Sharjah
15	Appreciation Letter	Omar Adwan	PHET (University of Colorado – USA)

16	Appreciation Letter	Omar Adwan	Government of Sharjah – Sharjah Education Council
17	Appreciation Letter for the contribution In best teaching practices workshop	Saja Abdulhadi	Dean- College of Sciences
18	Appreciation Letter for the contribution in “teaching labs during the Corona pandemic “workshop	Saja Abdulhadi	Dean- College of Sciences
19	Appreciation Letter	Saja Abdulhadi	The Sustainability office
20	Appreciation Letter	Saja Abdulhadi	PHET (University of Colorado – USA)

Efforts to Enhance Academic Advising:

- Please list some of your techniques here

Newly Enrolled Students (2021-2022)

12. Students

The total number of students in the College has increased during last years as following:

5.2 Enrolled Students

Fall 2021/2022		F	M	Total
		Major	Major	
Grad	Chemistry	20	0	20
	Applied Biology	37	2	39
	Physics			
	Total	30	1	
UG	Applied Physics			
	Applied Biology	395	42	437
	Chemistry	67	14	81
	Mathematics	39	8	47
	College Total	529	54	552

Spring 2021/2022		F	M	Total
		Major	Major	
Grad	Chemistry	20	0	20
	Applied Biology			
	Physics			
	Total			
UG	Applied Physics			
	Applied Biology			
	Chemistry	67	17	84
	Mathematics	5	0	5
	College Total	189	27	216

Graduated Students by Level, Major and Nationality

			UAE	GCC	Other Arabs	Others	Total
Master	Chemistry	F	5	0	1	0	6
		M	0	0	0	0	0
		Total	5	0	1	0	6
	Applied Biology	F					
		M					
		Total					
Bachelor	Applied Biology	F					
		M					
		Total					
	Chemistry	F	5	0	7	1	13
		M	6	0	0	0	6
		Total	0	0	0	0	19
	Physics	F					
		M					
		Total					
	Mathematics	M					
		F					
		Total					
	Total						
	Total	11	0	7	1	38	11

Self evaluation of students number

The total number of students in the College has increased **from 454 last year to 476.** This increased because of the good reputation of the programs offered by the College along with the international recognition of some programs within the College. In addition to good reputation, the College is adapting well organized outreach strategies that produce good publicity. The cost of the programs within the college is also another factor that contributes to the increase of students who are enrolled in the Science program.

Plans for Further Stimulating Student Enrollment

- 1- Maintaining the of the good reputation of the programs offered by the College along with the international recognition of some programs within the College.
- 2- Adapting well organized outreach strategies that produce good publicity.
- 3- Keep the cost of the programs within the at the current level
- 4- Placing graduates in appropriate work places.

Here are examples of departments in the College of Science of how to stimulate the student enrollment:

1.5 Student Advising

No.	Faculty Name	Rank*	# Students	
			Fall	Spring
1.	Raed Abdallah AL Qawasmeh (Chairman)	Professor	9	9
2.	Ihsan Shehadi	Associate Professor	9	9
3.	Ayssar Nahle	Associate Professor	9	9
4.	Ideisan Abu Abdoun	Professor	9	9
5.	Ahmed Almehti	Associate Professor	9	9
6.	Ahmed Ali Mohamed	Assistant Professor	9	9
7.	Mohammed El Naggar	Assistant Professor	6	6

8.	Kamrul Hasan	Assistant Professor	8	8
9.	Abdelaziz Elgamouz	Assistant Professor	9	9
10.	Mahreen Arooj	Assistant Professor	9	9
12.	Monther Khanfar	Professor	9	9
13.	Abdel-Nasser Kawdee	Professor	0	Joined lately
Total			95	95
			Total	95

Department of Applied Biology				
No.	Faculty Name	Rank*	# Students	
			Fall	Spring
1.	Ismail Saadoun	Professor	40	40
2.	Elsiddig Elsheikh	Professor	82	82
3.	Ali El-Keblawy	Professor	73	74
4.	Ihsan Ali Mahasneh	Professor	56	68
5.	Abdelaziz Tlili	Associate Professor	91	91
6.	Mona R. Hassuneh	Associate Professor	78	76
7.	Hassen Hadj Kacem	Associate Professor	93	93
8.	Khalid Bajou	Associate Professor	93	93
9.	Kareem Mosa	Associate Professor	88	88
10.	Muhammad Nasir Khan	Assistant Professor	67	67
11.	Amir Ali Khan	Assistant Professor	69	69
12.	Abdullah Al Mutery	Assistant Professor	52	52
Total			882	893

No.	Faculty Name	Rank	# Male Students		# Female Students	
			Fall	Spring	Fall	Spring
1	Abdelaziz Soufyane	Professor	0	0	2	2
2	Basem Attiti	Professor	1	1	2	2
3	Ali Jaballah	Professor	0	0	3	3
4	Khalil Al-Dosary	Professor	0	0	3	3
5	Salim Messaoudi	Professor	1	0	0	0
6	Hishyar Kh. Abdullah	Associate Prof.	1	1	2	2
7	Firas Ghanim Ahmed	Associate Prof.	0	0	3	4
8	Belkacem Said-Houari	Associate Prof.	1	1	3	3
9	Mohamed Bataineh	Associate Prof.	1	1	1	1
10	Muhammed Islam	Associate Prof.	1	1	3	3
11	Mahmoud Binkhalifa	Associate Prof.	2	2	1	1
12	Zahid Raza	Associate Prof.	0	0	3	4
13	Mostafa Zahri	Associate Prof.	0	0	3	4
14	Mohammad Alakhrass	Assistant Prof.	0	0	3	3
15	Dr. Aziz Takhirov	Assistant Prof.	0	0	2	2
16	Dr. Marwan Al Momani	Assistant Prof.	1	1	2	2
Total			9	8	36	39

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

Department of Applied Physics and Astronomy

No.	Faculty Name	Rank*	# Students	
			Fall	Spring
1.	Muhammad Azeem	Assistant Professor	5	5
2.	Amine Ahriche	Professor	3	3
3.	Hichem Eleuch	Professor	3	3
4.	Bashir suleiman	Professor	5	5
5.	Rachik Soualah	Assistant Prof.	5	5
6.	Kais Daoudi	Associate Professor	3	3
7.	Antonios Manousakis	Assistant Professor	4	4
8.	Hafsa Khurshid	Assistant Professor	6	6
9.	Daniel Moraetis	Assistant Professor	5	9
10.	Yassir Ahmed Abdu	Assistant Professor	7	7
11.	Hamdan Hamdan	Assistant Professor	8	13
12.	Mounir kaidi	Associate professor	5	5
13.	Fernini Ilias	Professor	3	3

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

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 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.

Biotechnology

- Efficiently advising Biotechnology major students, and the students' studies went smoothly throughout the semesters. Giving a lot of time for the student during advising, and being patient with them. Advising the student on the basis of

providing them with a carefully designed registration plan so they can perform very well in their registered courses. Helping the students to achieve good academic performance and those under probation are advised accordingly.

- Met with several students who are under probation and advise them according to the Bylaws of UOS to improve their GPA. The student and the advisor signed a special form.
- 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.
- Attended advising workshop “CoSci Freshmen Students Academic Advising” organized by College of Sciences Students Advising Committee on Sept. 26th, 2021.
- Attended advising workshop “Biotechnology Freshmen Students Orientation Day” organized by DAB Students & Academic Advising Committees on Sept. 29th, 2021.
- Attended the 2nd Biotechnology Alumni meeting on March 24th, 2022.

- **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

5.6 Student Extra-Curricular Activities

Department of Chemistry

No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1.	8 th Chemistry Festival	Festival	Local	16 th Feb 2022.	UAE community
2.	Social Committee Events: Organized for the - “Sky Night View” - “Enjoy the Multicultural Environment in UOS” Webinar, - “Second Stress Relief Gathering”	Educational event and webinars	Local	23 rd March 22 10 th Feb. 22 9 th Nov. 21	College Of Sciences Academics, Staff and Students
3.	College of Sciences Open Days/UOS	Open Days	Local	17 th -18 th & 21 st May 2022	Promotion for B.Sc. & M.Sc. chemistry programs to the High School students,
4.	College of Sciences Students visit to Expo 2020 Dubai	Visit	National	20 th & 27 th Nov 2021; 4 th Dec 2021; March 2022	College Of Sciences Academics, Staff and Students
5.	College of Sciences Students’ 50 th UAE National Day Celebrations	Festival	Local	22 nd November 2021	UoS Academics, Staff and Students
6.	Hands on experience in spectroscopy	workshop	Local	23 rd March 2022	College of Sciences Students

7.	Job Fair	Interviews	Local	2 nd March 2022	Department of Chemistry Alumni
8.	Workshop on Instrumentation for environmental pollutants analysis	Visit	local	18 th April 2022	MSc in Environmental Science and Engineering students visited the chemistry Labs and did 3 experiments on HPLC, GC and Atomic absorption
9.	8 th Chemistry Festival	Festival	Local	16th Feb 2022.	UAE community
10.	Social Committee Events: Organized for the - “Sky Night View” - “Enjoy the Multicultural Environment in UOS” Webinar, - “Second Stress Relief Gathering”	Educational event and webinars	Local	23 rd March 22 10 th Feb. 22 9 th Nov. 21	College Of Sciences Academics, Staff and Students

Department of Applied Biology					
No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1.	Seminars presented by DAB M.Sc. students	Webinar	local	Academic year 21-22	DAB faculty and students

2.	M.Sc. in Biotechnology thesis projects defenses	Online Defenses	Local	Academic year 21-22	DAB faculty and DAB M.Sc. students
3.	EXPO 2020 visits	Trip	Local	-20, 27 Nov. 2021 -4, Dec 2021 -FEB. 26 TH , 2022 - 19, 20, 26 & 27, March 2022	DAB students
4.	Tutoring Program	Tutoring & Learning	Local	Academic year 21-22	DAB students and UoS Students
5.	10 th Biotechnology Summer Training Presentations_20/21	Event	Local	September 23, 2021	DAB Faculty and Students
6.	Biotechnology Students' Orientation	Event	Local	Sep. 29, 2021	DAB Faculty and Students
7.	College of Sciences "Second Stress Relief Gathering" 2021	Event	Local	Nov. 9, 2021	College of sciences and DAB students and faculty
8.	A group of 5 students participated in the "2021 Inter College Environmental Public Speaking Competition"	Competition, organized by Emirates Environmental Group	Regional	Nov. 22, 2021	Regional community
9.	12th Biotechnology Students' Exhibition	Exhibition	Local	Nov. 25th, 2021	DAB faculty and students
10.	Biotechnology Students' Research Projects Defense, Fall 21-22	Celebration & Gathering	Local	Dec. 20, 2021	DAB faculty and students
11.	Biotechnology Students' Scientific Society Exhibition, EXPO 2020	Exhibition	National	March 2 nd , 2022	UoS and DAB students, and community
12.	2nd DAB alumni meeting: let's get together	Meeting	Local	March 24 th , 2022	DAB faculty, students and Alumni

13.	Sky Night View	Event	Local	March 24,2022	College of sciences and DAB students and faculty
14.	Biotechnology Students' Research Projects Defense, Spring 21-22	Celebration & Gathering	Local	May 17 th , 2022	DAB faculty and students
15.	12th UOS Open Day	Event	National	17, 18, 21 of May 2022	Local Community (High school students), DAB and Co.Sci.
16.	M.Sc. in Biotechnology Research Projects Defense	Event	Local	May 21, 2022	DAB

No	Activity Name	Type*	Scope**	Date	Beneficiaries
1	Math, the great mystery and the language of the universe	Presentation-Lecture	National	March-2021	High school students
2					

Department of Applied Physics and Astronomy					
No	Activity Name	Type*	Scope**	Date	Beneficiaries
.					

1	Fieldwork in a project related to DEWA	Field Research	Teaching and learning practical skills	February and April 2021	<ul style="list-style-type: none"> · Qorri Fazriana Muttaqien · Suad Badir Sulaiman Abdalla Johar · Afra Obaid Musabeh Obaid Alteneiji · Maira Darwish Ghareeb Jumaa Alhosani · Asamau Aminu Ibrahim
2	Senior Freshmen Get Together	Students gathering	Network and connection among physics dep. students	19/11/2020	All students in physics and astronomy department
3	Definition of Time	Workshop	Teaching and learning practice	05/01/2021	All students in physics and astronomy department
4	Programing and Physics	workshop	Teaching and learning practice	13/1/2021	All students in college of sciences

5	Physics and The Promise of a Greener Future	workshop	Teaching and learning practice.	04/03/2021	All students in college of sciences
6	Experimental V.S. Theoretical Physics Event	workshop	Teaching and learning practice	11/04/2021	All students in college of sciences
7	Trivia contests on the society Instagram account (@uosphysicsociety)	Online question on general sciences	Teaching and learning	every 1-2 week	Open to Public for all who want to participate
8	Participation in DEWA Innovation Week	Exhibition	National	22-28/ Feb. 2021	Public and Students
9	Rehearsals meeting & Orientation Lecture	Student Scientific Society	DAPA	18/ Nov. 2020	DAPA Students
10	Seniors/Freshmen Get Together Event & Orientation Lecture	Student Scientific Society	DAPA	19/ Nov. 2020	DAPA Students
11.	PhET Publications (107 students published their	Volunteer	International	Fall & Spring 2020-2021	International Students

	worksheets in PhET)				
12	CubeSat Research Workshop (Sep. 02, 2020)	Workshop	International	Sep. 02, 2021	Research Assistants
13	13th UAESA ESIG Workshop – Sep. 22, 2020	Workshop	National	Sep. 22, 2020	Research Assistants / Students
14	CubeSat Research Workshop (Sep. 23, 2020)	workshop	International	Sep. 23, 2020	Research Assistants /Students
15	CubeSat Research Workshop (Oct. 15, 2020)	Workshop	International	Oct. 15, 2020	Research Assistants /Students
16	14th UAESA ESIG Workshop – Nov. 05, 2020	Workshop	National	Nov. 05, 2020	Research Assistants / Students
17	Sharjah-Sat-1 Workshop – Nov. 08-12,2020	Workshop	National	Nov. 08-12, 2020	Research Assistants / Students
18	Space Weather Workshop – Nov. 19, 2020	Workshop	National	Nov. 08-12, 2020	Research Assistants / Students
19	3DExperience CATIA Workshop – Nov. 22, 2020	Workshop	National	Nov. 22, 2020	Research Assistants / Students

20	Radio Astronomy Workshop – Nov. 25, 2020	Workshop	National	Nov. 25, 2020	Research Assistants / Students
21	CubeSat Research Workshop (Dec. 10, 2020)	Workshop	International	Dec. 10, 2020	Research Assistants / Students
22	Ansys Workshop / Structural Analysis using ANSYS – Dec. 28, 2020	Workshop	National	Dec. 28, 2020	Research Assistants / Students
23	Solar System Workshop – Jan. 10, 2021	Workshop	National	Jan. 10, 2021	Research Assistants / Students
24	CubeSat Workshop – Jan. 13, 2021	Workshop	International	Jan. 13, 2021	Research Assistants / Students
25	CubeSat Workshop – Feb. 11, 2021	Workshop	International	Feb. 11, 2021	Research Assistants / Students
26	CubeSat Workshop – Mar. 17, 2021	Workshop	International	Mar. 17, 2021	Research Assistants / Students
27	Lunar Crescent Visibility Workshop – Apr. 11, 2021	Workshop	National	Apr. 11, 2021	Research Assistants / Students
28	CubeSat Workshop – Apr. 15, 2021	Workshop	International	Apr. 15, 2021	Research Assistants / Students

29	International Day of Astronomy – May 02, 2021	Workshop	National	May 02, 2021	Research Assistants / Students
30	Galaxies Workshop May 09, 2021	Workshop	National	May 09, 2021	Research Assistants / Students

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

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

Student Awards

Department of Chemistry				
No.	Competition	Venue	Date	Award
1.	The Sharjah Chamber Award for Innovators using Spices and Condiments.	Sharjah	13/02/2021	Saadiah Liakhat Ali (U20104359) secured the <u>Third Place</u> at the national level, in the Sharjah Chamber Award for Innovators project that participated in the “devising a New Technique for visualization of Latent fingerprints on different surfaces using Spices and Condiments.”

Department of Applied Biology				
No.	Competition	Venue	Date	Award

1.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Outstanding Students in 2 nd year awarded to: 1- Eman Ayman Sameh Hossen 2- Farah Abdulkareem Salmeh 3- Alya Mohamed Hassan Sulaiman Aldhuoori 4- Ujala Waseem Muhammad Waseem Silat
2.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Outstanding student in the 3 rd year awarded to: 1- Asma Eisa Yousef Doostkam 2- Fatima Zahra Mashhour Alkafri 3- Farid Mohammed Farid Bahada
3.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Outstanding student in the 4 th year awarded to: 1- Shamita Uma Kandan
4.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Oral Presentation in Microbial Biotechnology and Processing awarded to: 1- Hind Nasser AlQattan 2- Abdulla Alobeidli 3- Saada Alyassin 4- Ola Al Shehadat 5- Lama Ashraf Mohamed
5.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Oral Presentation in Environmental Biotechnology awarded to: 1- Hadi H. Obeid 2- Hessa A. Lootah 3- Najma N. Islam 4- Khola Y. Haji 5- Saoud F. Shaikh
6.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Oral Presentation in Molecular Biology awarded to: 1-Aisha Salem Mohammed 2- Razan Hajeer 3- Maab Sameer Basheer 4- Alyazya Ahmed 5- Sheikha Ali Ali
7.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in Basic Biotechnology (1 st Prize) awarded to: 1- Yasmin K. Omar 2- Raouane Bouhia 3- Lina M. Ali Al-Swari 4- Alya M. Hassan Sulaiman Aldhuoori

				5- Hessa Jassim Alhammadi
8.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in Basic Biotechnology (2 nd Prize) awarded to: 1- Khadija Mohammad Almoosawi 2- Amna alfalasi 3- Abdulla Abdul Khadar 4- Nouf AlSarkal
9.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in Basic Biotechnology (3 rd Prize) awarded to: 1- Samer Wael 2- Mariam Ali Alhammadi 3- Ujala Waseem 4- Hind Abdullah Ali 5- Fatima Labiba Salim
10.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in Molecular Genetics (1 st Prize) awarded to: 1- Ahlam Wassim Kaddoura 2- Fatima Zahra Mashhour Alkafri 3- Nour Moayad Tawfiq Dyab 4- Iman Wehbe 5- Sara Naif Bahbough
11.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in General Microbiology (1 st Prize) awarded to: 1- Nouha Bentebbal 2- Sadil Sahel Aqrabawi 3- Tuleen Osama Taysier Alkilani 4- Tasnim Abdullatif
12.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in Immunology (1 st Prize) awarded to: 1- Luden Mohamed 2- Hind Abu Shaireh 3- Hind Alhammadi 4- Walaa Yasir 5- Maha Faghihi
14.	12 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	25.11.2021	Best Poster in M.Sc. in Biotechnology awarded to: Shahad Ghazi Eisa Fadl Alnuaimi

Department of Mathematics

No.	Competition	Venue	Date	Award
1.				

Department of Applied Physics

No.	Competition	Venue	Date	Award
2.	Wiley Plus Award	online	Fall 2021	Trophy and money

13. Learning Resources

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

The following table shows a sample of time-phased plan for electronic periodicals' subscriptions:

Department of Applied Physics

1.	Using new experiments simulations in virtual lab due to online teaching
2.	Prepare new experiments to fit the online teaching
3.	Video recording for some experiments in the lab for online teaching.
4.	New lab manual for electronics lab contains lab reports and PP presentations for 10 experiments is available now within the blackboard system as electronic resources
5.	The lab reports and PP presentations for all virtual lab experiments during the online teaching period are available to students via the blackboard system.
6.	Interactive PowerPoint presentations for the entire content of Remedial Physics course and the related solution manual are available for students as electronic resources within the BB.

7.	Teaching materials and PP presentation for Phys 1 Lab, Phys 2 Lab, Genl Phys for HS Lab, Phys for MS Lab, Phys for MI Lab, Modern Physics Lab and Electronics for Exp. Phys. Lab are available to students and instructors as laboratories electronic resources.
8.	

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

No.	Type
1.	Using Blackboard to deliver course material (Theory and Labs)
2.	Banner System for posting the students grades (Lab reports, quizzes and midterm exams)
3.	Using “Wily Plus” in assignments, testing and assessment tools.
4.	Using virtual lab and simulation for all experiments during the online teaching period
5.	Using Poll Everywhere as a classroom response system for interactive learning.

Department of Applied Biology

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

1.	New books and Journals (Hard copy and electronic) were ordered through the main Library.
2.	Using virtual videos and simulations for online laboratory courses
3.	Using Polls for interactive learning.
4.	Experimental videos performed by the instructor
5.	Lab manual prepared for each practical course
6.	Using Blackboard Ultra to deliver course material

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

1. Video demonstration by the instructor of experiments in the Molecular Biology Lab (1450452), General Biochemistry Lab (1450352), General biology laboratory, Tissue Culture & Animal Biotechnology Lab (1450361), and Plant Biotechnology Lab ([1450421](#)).

2.	Lab Manuals: Students are provided with lab manuals for detailed protocols of experiments in all practical courses
3.	"Lab report guidelines" are prepared and uploaded for each experiment to aid and support the students in their scientific writing skills and how to present and discuss data
4.	Use of educational videos to improve learning experience
5.	Supervising students' research projects in General Microbiology (1450331) and library projects in Forensic Science (1450311) course, respectively. Groups of 4-5 students prepared a poster then presented their projects during the 10TH Biotechnology Students' Exhibition (Dec. 4th, 2019) and on Feb. 25th, 27th, March 26th, 2020, and April 30th, 2020.
6.	Experimental simulations were adopted for all online practical courses
7.	Online courses (Ecology, Mol. Developmental Biology and Advanced Developmental Biology) using BB collaborate and MS Team.
8.	Blended learning: Bioinformatics lab through online lectures and recording videos of the lecture. Students were able to use online tools and softwares through blackboard collaborate.
9.	Use of computer in instruction – all courses were taught using computers, with the help of PowerPoint; some videos and animations were also presented in some classes
10.	Use of the University website to deliver course material, assignments, quizzes and exam – all course materials were uploaded on Blackboard and course assignments were also delivered on Blackboard. To deliver exams and quizzes Lockdown browser was used.
11.	Use of "Banner" and "Blackboard _ Grade Center" for posting the students grades.
12.	Using JoVE library demonstrating Core Biology concepts in the Remedial Biology course (1450099), General biology laboratory 1450107 during the Spring semester
13.	Virtual field trips for Environmental and Microbial practical courses.

14.	McGraw hill connect assignment were introduced in General Biology 2 1450102, students were required to submit all assignment online, recitation sessions were performed in this course students were trained on how to use chem draw and how to use McGraw connect as well as smart reading.
15.	In “Environmental Biotechnology” (1450436) course, students are divided into groups, and each group worked on a topic to be presented as a PPT in a formal way of presentation during the student’s biotechnology exhibition.
16.	Research project students worked in a topic that is critically important for the food security of the UAE, which is the use of newly defined variety of endophytic bacteria to enhance productivity of crops and relief the salinity effect. They didn’t finish the project because of the COVID situation, but prepared a publishable review article about the same topic
17.	In seminar, each student was asked to critically analyze a recent research biotechnology paper published in a reputable journal. Once the student is ready, he/she is asked and to present it front of his colleagues and to discuss the article objective, methodology and results.
18.	In “Basic Biotechnology” (1450201) course, students are divided into groups, and each group should work on a topic to be presented as a poster during the student’s biotechnology exhibition.
19.	In “Pharmaceutical Biotechnology” (1450437) course, students are divided into groups and each group is required to write a mini review article on topics related to the course based on the previous research and literature. This encouraged the group studies and team work to achieve the required project. A presentation is given on how to prepare and write a review article to prepare the students for such activity.
20.	In “Plant Biotechnology” (1450421) course, students are divided into groups and each group is required to write a mini review article on topics related to the course based on the previous research and literature. This encouraged the group studies and team work to achieve the required project. A presentation is given on how to prepare and write a review article to prepare the students for such activity.
21.	In “Research Methodology” (1450501) MSc course, students were given different home assignments to practice what they have learned on the lectures. The feedback from the students and assignments results were positive. Additionally, students were asked to prepare and present 2 different presentations during the course period. Also, students were required

	to prepare and submit a research proposal to apply the knowledge they gained from the course.
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Department of Chemistry

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

9.	SciFinder
10.	Library
11.	RefWorks
12.	Smart reading on McGraw hill connect for General chemistry MS 1 and 2
13.	Smart reading on Wiley Plus for General chemistry 1
14.	Smart Virtual LABS on McGraw hill connect for General chemistry Lab1, MS 1, and HS
15.	Smart Virtual LABS on McGraw hill connect for General chemistry Lab2

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

1.	Blackboard system
2.	JOVE platform for the labs
3.	MCGrAW Hill connect for lab simulation
4.	Banner System

Department of Mathematics

16.	Online Mathematics and Statistics journals.
17.	Computer Lab
18.	Library

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

5.	Blackboard system
6.	Banner System
7.	Google Cloud Services
8.	Video Animations
9.	PowerPoint presentations
10.	Microbiology Lab Manual (1450-332), version 3 (Fall 2015/ 2016). Ban Al-Joubori
11.	Environmental Biotechnology Lab Manual (1450436), version 2 (Fall 2015/2016). Ban Al-Joubori
12.	TC & Animal Biotechnology Lab Manual (1450361), version 3 (Spring 2015/2016). Ban Al-Joubori
13.	Research Project Manual (1450493). Prof. Ismail Saadoun and Ban Al-Joubori.
14.	General Biology Lab Manual (1450107), Version 6 (Fall 2015-2016), Racha Al-Khoury, Ban Al-Joubori, Prof. Ismail Saadoun, Prof. Moslih Al-Moslih.
15.	Biochemistry Lab Manual (1450352), Version 3 (Spring 2015-2016). Racha Al-Khoury
16.	Molecular Biology Lab Manual (1450452), Version 2 (Fall 2015-2016). Racha Al-Khoury
17.	Research Project Manual (1450493). Prof. Ismail Saadoun and Racha Al-Khoury
18.	New books and Journals were ordered through the main Library. Some electronic journals were ordered.
19.	Using “Mastering Physics” in simulations, assignments, testing and assessment tools.
20.	There were several training workshops concocted by members of the department in “IT Tools in Teaching”, in addition of using Blackboard, PowerPoint and internet.
21.	Computerized physics placement Test
22.	This year the Matlab software was intensively used in one of the advance courses for visualization and to solve problems. Moreover, it has been added as part of the course evaluation methods .
23.	Mathematical packages (Maple and Mathematica)
24.	Statistical packages (Minitab and SPSS)

Laboratory Facilities

The University of Sharjah established the Central Laboratories at the same time the University was established in 1997 to be the core location for practical experiments, training and research relate to applied and medical sciences. The unit of “Central Laboratories” which belongs to the Deanship of Academic Support Services is the administrative unit responsible for operating and managing the central laboratories. The Central Laboratory unit duties include space management, buildings maintenance, purchasing new equipment, equipment maintenance, store services, inventory, safety and training.

The Central Laboratories administers labs for the College of Engineering, Sciences, Health Sciences, Medicine, Dentistry and Pharmacy. Central Laboratories consist of two main buildings on the main campus in W12 and M12, laboratories at the Medical and Health Sciences Complex in M23, M27 and M28 and laboratories at the University’s branch in Khorfakkan. Currently, there are 71 labs on the main campus, 23 labs on Medical and health Sciences and four labs in Khorfakkan, among which seven are designated as research laboratories. The Central Laboratories is also responsible for the upkeep and maintenance of over 5,500 pieces of equipment and runs an inventory for a stock of over 380,000 consumable items. The Central Laboratories Manual and Laboratory Safety Manual. It outlines further details on the university laboratories.

In addition, students have access to other laboratories, including the following:

1. Physics Laboratory, College of Arts and Sciences.
2. Chemistry Laboratory, College of Arts and Sciences.

The Department of Applied Biology provides three teaching labs and one research lab. The laboratories provide an academic foundation in essential life science disciplines where students perform highly technical procedures fundamental to biotechnology such as DNA extraction, polymerization by the polymerase chain reaction (PCR), electrophoresis, chromatography and tissue culture, in addition to several molecular and immunochemical techniques. Much of the learning takes place in the lab where students gain practical training in these fields.

Lab Name	DAB Laboratories
Lab Description	<ul style="list-style-type: none">• Our labs (W12-039, M12-026, M12-131 & M12-132) are well equipped with the latest equipment to suit their educational purpose.• Each lab is specialized to serve the designated practical courses.• Each lab is equipped with data show

<p>Practical Courses Taught</p>	<p>General Biology, Immunology and Serology, General Microbiology, Genetics, Biochemistry, Tissue Culture and Animal Biotechnology, Molecular Biology, Protein Engineering, Environmental Biotechnology, Microbial Processing & Biotechnology, Plant Biotechnology and Hematology, Graduate and Undergraduate Research Projects</p>
<p>Equipment Available</p>	<ul style="list-style-type: none"> • Genetic Analyzer • PCR and RT-PCR thermal cyclers • VITEK Microbiology Identification System • ChemiDoc Imaging System • MinION MK1C Capex Sequencer • Trans-Blot Turbo Transfer System • Sonicator • Profinia protein purification system • Leica Full automatic Tissue Processor • Cryostat Microrome • Full Automaric Microrome • Complete Speedvac concentrator with a universal vacuum System • Fermenter With air compressor • Inverted and Fluorescent microscopes • Light Microscopes • Microplate Spectrophotometer • CytoFlex flow cytometer • CO₂ incubator. • Class II Biosafety Cabinets • Floor Orbital shaker • The BioSpectrum Imaging System • Nanodrop Spectrophotometer • Automated Soil CO₂FLUX System • Chlorophyll Concentration Meter • Soil pH and EC meter • Water distillation system • Misc.: pH meters, weighing balances, hotplates, refrigerators, microwave, autoclave, incubators, vortex, micro centrifuge, class II Biological safety cabinets, Dry ice maker, freezers

Most of the physics courses require students to have hand-on experience. **The Applied Physics department** is provided with ten teaching laboratories and six research labs all are located in M12 and W12 buildings and equipped with up-to-date experiments and resources and state of the art research equipment. The department teaching labs are easy to access, and students have a full support by well trained and professional lab supervisors. In addition, our faculty members are involved in different research activities spans a broad range of basic and medical sciences.

Lab Name	We have 8 Physics labs distributed in two buildings in the university (M12 and W12), in addition to 3 newly established advanced labs for students projects and research purposes.
Lab Description	<ul style="list-style-type: none"> • Our labs are well equipped and furnished to suit their educational purpose. • Number of PCs in each lab is varying between 10 PCs up to 12 PCs, with data show and printer in each one. • Providing different Operating Systems Windows and Linux. • Pasco and Data Studio interfaces are available in our labs.
Courses Taught	Physics 1 Lab, Physics 2 Lab, Physics 3 Lab, Physics for Medical Science Lab, Physics for Health, Physics for Medical Imaging Lab, Modern Physics Lab, Electronics for Experimental Physics Lab, Advanced Lab, and Computational Physics Lab.
Equipment Available in Research Laboratories	<ul style="list-style-type: none"> • X-Ray Analytical Microscope • X-Ray Diffraction system • Scanning Electron Microscope • Fourier Transform Infra-Red Spectrometer • Micro Raman System • 40 PC networked, clustered for high performance computing application • Super-computer with tremendous memory and super-fast.

The Chemistry Department has 8 teaching laboratories and 2 CHEMISTRY STUDENTS' RESEARCH LAB and one Instrumental Laboratory.

Lab Name	We have 8 teaching laboratories , 4 located in the Central Laboratories M12 (2 General Chemistry Laboratories, 1 Organic Chemistry Laboratory and 1 Analytical Chemistry Laboratory) and 4 located in the Central Laboratories W12 (2 General Chemistry Laboratories, 1 Organic Chemistry Laboratory and 1 Physical Inorganic Chemistry Laboratory), Two CHEMISTRY STUDENTS' RESEARCH LAB located in W12 and one Instrumental Laboratory
Lab Description	<ul style="list-style-type: none"> - All the labs are well equipped and furnished to suit the educational purposes. - Each Lab contains a variety of Glassware and Equipment specific for each lab course. - Computer station is available at the Physical Chemistry Lab
Courses Taught	<ul style="list-style-type: none"> - General Chemistry (1) Lab - General Chemistry (2) Lab - General Chemistry Lab for HS - General Chemistry Lab for MS - Organic Chemistry Lab for HS - Organic Chemistry (1) Lab - Organic Chemistry (2) Lab - Identification of Organic Compounds - Inorganic Chemistry Lab - Physical Chemistry (1) Lab - Physical Chemistry (2) Lab - Instrumental Analysis Lab - Analytical Chemistry Lab for HS - Analytical Chemistry Lab
Equipment Available	<ul style="list-style-type: none"> - Atomic Absorption (SHIMADZU AA-7000) - UV/Visible Spectroscopy (PARKINELMER EZ301) - Differential Scanning Calorimetry (DSC TA Q20) - Spectro Fluorophotometer (SHIMADZU rf-6000) - High Performance Liquid Chromatography (HPLC AGILENT 1260 INFINITY) - Flame Photometer (BWB) - Microplate reader Spectrophotometer (THERMO SCIENTIFIC) - Gouay Balance (Magnetic Suscptibility Balance – Sherwood Scientific) - Bomb Calorimetry (PARR) - Microwave Synthesizer (CEM)

Laboratory Planning

During the second semester of every academic year, the college prepares a detailed budget request for the departments' programs for the following year. In the budget, each department indicates its budget needs for laboratory equipment. The Department's request is made based on the needs identified by faculty members and by the laboratory supervisors in the different disciplines.

The Department budget request is added to the requests made by other departments to form the College Budget request. The College Budget request is forwarded to the Vice-Chancellor for Administration and Financial Affairs and then discussed in the presence of the Dean, Vice Dean and other College representatives with the Vice Chancellor and members of the University Financial Affairs Committee. Upon review, the budget is handled by senior administration and eventually approved by the Board of Trustees.

At the beginning of each new academic year, the College of Sciences receives a copy of the approved budget. The budget is then forwarded to the Departments and each department spends according to its approved share of the budget.

The Department forwards requests for equipment with the required specifications. The purchase department processes the requests and seeks three bids from equipment suppliers. The bids are forwarded to the Department to check whether the technical specifications are met and the purchasing Department acts upon the recommendations of the Department.

The Central Laboratories Administration is responsible for insuring and maintaining all laboratory equipment and facilities from their own budget. The Central Laboratories typically organize maintenance and insurance agreements with various specialized firms and coordinates such activities with the concerned departments. This arrangement has worked so far in a highly effective manner.
Laboratory Staff and Support

Computing Support Personnel

As mentioned above, the University Central IT Center is responsible for providing a number of vital services to the college, including:

1. Develop and maintain instructional systems and technologies.
2. Develop and maintain classroom IT systems and technologies.
3. Provide IT support.
4. Web publishing.
5. University networking.
6. Wireless networking.
7. Telecommunications services.
8. Information systems.

9. Purchasing of hardware and software.
10. Installation of hardware and software.

The IT Center employs a large number of IT and communications specialists to carry out the duties of the center. The Center is supervised by the Deanship of Academic Support Services.

Laboratory Support Personnel

As mentioned above, the University Central Laboratories Administration has its own Director and employees who carry out the duties of the unit. The main duties of the Central Laboratories Administration include:

1. Maintenance.
2. Insurance.
3. Inventory.
4. Acquisition of Equipment.
5. Purchase of Consumables.
6. Safety and Security.
7. Training.
8. Teaching and Research Support.

The Central Laboratories Manual and Laboratory Safety Manual outlines further details on the university laboratories.

In addition, each Department employs a number of laboratory supervisors. The main duties of laboratory supervisors include running their respective laboratories under the supervision of concerned faculty members, assisting in teaching laboratory courses, and helping in grading assignments.

Laboratory Policies and Procedures

The University periodically publishes a catalogue highlighting the existing labs, available equipment's and materials, nature of experiments and associated policies and procedures. The Catalogue has general policies and policies set for each lab through considering the type of offered courses and the nature of performed experiments. For more information.

14. Physical Resources

University Physical Resources

The University has a master plan for physical facilities that include the following:

- Analysis of existing physical facilities in all its campuses, such as classrooms, labs, libraries, offices, parking spaces, clinics, sport facilities, IT infrastructure, dorms, etc..
- Plan for facilities development and expansion
- Appropriateness of the existing and planned facilities to the number of students, faculty, staff and services at both short and long terms.

The University enjoys one of the most beautiful and spacious campuses in the country. Special care is given to the people with physical disability to meet their requirements. All buildings, equipment and facilities are well maintained through proper maintenance contracts with well-known maintenance companies.

College Physical Resources

Office Space

The college of sciences occupies sufficient space within the University. The 4 Departments of the college are housed in M7 and W8. Each college of sciences faculty member has a primary office. All assistants and administrative staff also have separate offices (M7 & W8, M12 and W12). The Deans office is located in M7I. Other rooms that are occupied by the college include one computer lab in W8, storerooms, one room allocated per department for the students Societies Club (in M7 and W8). In addition, the chemistry, biology and physics departments utilize substantial areas for laboratory facilities and office spaces for technicians and laboratory assistants in both M12 and W12. The lab rooms are mainly in the M12 and W8 buildings.

ClassRooms

Collegue of sciences programs classrooms are scattered in the University buildings over the men and women campuses. From the year 2009/2010 the university has allowed the mergering of some men and women sections, and as such some classrooms were allocated for merged men and women sections. The classrooms are managed by the Deanship of Academic Support Services, which is responsible for equipping the classrooms with the required IT and communication facilities. The classrooms are assigned by the Registration Administration.

Teaching laboratory courses and activities are conducted in the chemistry, biology and physics laboratories in the men (Building M12 and W12).

In terms of capacity, normal class rooms can accommodate up to about 40 students. Theaters classrooms can accommodate up to about 75 students. All classrooms are equipped with equipment for projection of computer software-based presentations as well as traditional audio visual teaching (i.e., overheads). All classrooms have Internet connections.

The University has commissioned **over 80** “smart classrooms” and fitted them with the necessary requirements for modern and multimedia-rich delivery.

Laboratories

The University laboratories are clustered together in the Central Laboratories Buildings. The Central Laboratories are the umbrella for the administration of the scientific and technical laboratories for the Colleges of Engineering, Sciences, Health Sciences, Medicine, Dentistry and Pharmacy. The laboratories consist of two buildings in the main campus W12 and M12 and laboratories in the Medical and Health Sciences Campus M27 and M28. At the present time there are 75 labs in the main campus and 25 labs in the Medical Campus; among these labs five are designated as research laboratories. The Central Labs Administration is responsible for the upkeep and maintenance of over 5000 pieces of equipment and keeping track and stock of over 50,000 consumable items.

Program Physical Resources

The plan for next **5 years** is shown in the following table.

Aspect of Planning	Actions	Responsibility	Time Frame
Learning resources (library and books, technology, classrooms, laboratories)	<ol style="list-style-type: none"> 1. Restructure labs in M12, and classrooms to accommodate increased numbers of students especially for mandatory courses. 2. Upgrade library by offering an e-book version of the main educational textbooks. 3. Upgrade laboratories with up- to-date interface and demo equipment. 4. Using practical projects in all advanced Labs as new assessment tool. 5. This year the department will budget to order new machines for: <ul style="list-style-type: none"> - 16 multi-purpose educational labs. - 2 Mac labs (one lab: replacement of old Mac machine; another lab newly created). 6. Students in various courses are asked to prepare individual and group reports and presentation. They usually use different information sources, 	<ul style="list-style-type: none"> - Chair - Department - Dean - University (IT Center & Physical Plant & Library) 	2020-2024

	<p>such internet, libraries and databases of related environmental organizations and sometimes they even perform lab experiments.</p> <p>7. Library Workshop is organized every academic term in collaboration with the medical library.</p>		
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Physical Environment: Safety

The University of Sharjah Physical Plant Department strives to ensure all campus occupants enjoy a healthy and hazard free environment that complies with applicable local and international environmental regulatory requirements. This department provides safeguard services for the University buildings and facilities to protect properties; identifies potential safety or fire hazards; takes action or makes recommendation to eliminate hazard; assures that fire extinguishers, smoke detectors, fire alarms, sprinkler system and fire hydrants are in operating condition; and conducts fire drills and participates in fire prevention programs for faculty, staff, and students. It also involves environmental health safety, occupational safety, pest control and sanitation campus wide. Moreover, the Physical Plant Department provides technical consultations, training assistance, and other specialized services in the areas of fire safety and emergency response, general health and safety, occupational safety and health, hazardous waste, materials management, and industrial hygiene. Physical Plant Department also works to inform and educate the campus about safety related issues. The Department has a Central Control Unit that receives all service calls and reports during working hours. Emergency services are also provided by the Department after working hours or weekend on a 24-hour basis.

Central Laboratories established safety policies to create an environment where students are not exposed to hazards and raises their awareness of safety and risk issues. Central Laboratories organizes safety trainings sessions regarding safety use of equipment, fire-safety and first aid workshops. Central Labs inspects the labs regularly to make sure that labs are safe. Every time new equipment is installed and commissioned, it is our responsibility to request from the supplier safety training sessions in addition to normal training sessions. The Central Laboratories Manual and Laboratory Safety Manual outlines further details on the university laboratories.

Physical Environment: Technology

Information Technology Infrastructure

The University maintains a large-scale and multi-campus IT infrastructure. This infrastructure includes telecommunication, servers, data storage and up-to-date software and hardware technologies which are provided for the support of academic programs, administrative units and the university community at large.

Data Security and Backup

The following data security measures are implemented for ensuring the availability and security of the University electronic data:

- 1- Data stored at the Data center are backed up daily by tapes and stored at the main building.
- 2- Replicates of the tapes are created and stored at another physical location at the main campus outside the main building.
- 3- Mirroring is used for the data running on the databases and service servers
- 4- The Data Center is physically protected by two-level restricted access gates.
- 5- In case of power failures, the data center is supported by external generators and UPS units.
- 6- The university is currently implementing a disaster recovery scheme where all data is mirrored and saved at the Khorfakkan branch
- 7- The university network is protected by various levels of firewall technologies
- 8- The university network runs an Intrusion Prevention System (IPS) as a proactive measure for protecting data against intrusion attacks
- 9- All emails are protected by Email Gateway Security technologies
- 10- All desktops and laptops are protected by desktop anti-virus technologies
- 11- Any external device wishing to connect to the internet must seek authentication prior to establishing connection
- 12- The policies and procedures manual defines security standards and guidelines for internet usage.

The Institutional Effectiveness Manual indicates institutional commitment to quality education, explains the role of all university units and governors in the institutional effectiveness process, and shows the University effectiveness cycle. The manual is applied in all university campuses. It outlines further details on the Institutional Effectiveness Manual.

1. Fiscal Resources

College of Sciences Budget for the past five years (by the dean)

	Chapter 1	Chapter 2	Chapter 3
2008/2009	NA	1,427,285	570,914
2009/2010	NA	2,620,000	1,310,000
2010/2011	NA	2,710,327	1,003,824
2011/2012	NA	2,702,250	900,750
2012/2013	NA	1,558,730	692,762
2013/2014	NA	NA	NA
2014/2015	NA	NA	NA
2015/2016	NA	NA	NA
2016/2017	NA	NA	NA
2017/2018	NA	NA	NA
2018/2019	NA	NA	NA
2019/2020	NA	NA	NA
2020/2021	NA	NA	NA

Chapter 1 includes salaries, which are usually dealt with at the university level. Chapter 2 includes all items except equipment. Chapter 3 includes laboratory equipment, furniture and consumables.

2. Public Disclosure and Integrity

Agreements and Memorandum of Understanding

Department of Applied Physics and Astronomy				
Agreement Type*	Singed By**	Signed With	Scope***	Description
Memorandum of Understanding (MoU)	Department of Applied Physics and Astronomy	Bayanat Inc	Abu Dhabi	Lay the ground and extent of collaboration in regards to academic, research and community service activities
Memorandum of Understanding (MoU)	Chancellor and Department of Applied Physics and Astronomy	UAEU and NYU AD	National	The ATLAS Collaboration
Memorandum of Understanding (MoU)	Chancellor and Department of Applied Physics and Astronomy	ICTP	International: Italy.	ICTP scientific collaboration: Students and Faculty.

** Signed By: Department Name

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

3. Research and Scholarly Activities

Publications Summary

Publication Category	DC	DAB	DM	DAPA	Total
Published Books	0	0	0	1	1
Journal Papers	78	77	71	79	220
Book Chapters	0	6	7	1	7
Conference Papers	5	3	1	10	7
Technical Reports & Manuals	0	9	0	1	9
Patents/Patent Applications	0	0	0	0	0
Artistic and Creative Works*	0	0	0	0	0
Total	83	95	79	92	243

* For College of Fine Arts and Design

List of Publications

No.	Publication Name	Category*
1.	Optical sensing of hydrogen peroxide using starch capped silver nanoparticles, synthesis, optimization and detection in urine, A Elgamouz, K Bajou, B Hafez, C Nassab, A Behi, MA Haija, SP Patole, Sensors and Actuators Reports 2 (1), 100014	Journal
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10.	<p>“Novel Triazole derivatives as ecological corrosion inhibitors for mild steel in 1.0 M HCl: Experimental & theoretical approach”</p> <p>A. Nahlé*, R. Salim, F. EL Hajjaji, M.R. Aouad, M. Messali, E. Ech-chihbi, B. Hammouti, M. Taleb.</p> <p><i>RSC Advances</i>, <u>11</u> (2021), 4147-4162.</p>	Journal
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60.	<p>FRET-based fluorescent probe for drug assay from amino acid@ gold-carbon nanoparticles</p> <p>MK Hameed, JBM Parambath, SM Kanan, AA Mohamed</p> <p>Analytical and Bioanalytical Chemistry 413, 1117-1125</p>	Journal
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71.	<p><u>Facile protic hydration of acetonitrile to protonated acetamide at oxygen mediated by chloroauric acid: insights from experimental and calculations</u></p> <p>I Shehadi, F Abla, B Wakefield, J Reibenspies, M Arooj, AA Mohamed</p> <p>Research on Chemical Intermediates 46 (1), 593-607</p>	Journal
72.	<p><u>Nitroimidazoles Part 9. Synthesis, molecular docking, and anticancer evaluations of piperazine-tagged imidazole derivatives</u></p> <p>YA Al-Soud, H Ala'a, L Abu-Qatouseh, A Shtaiwi, A Kafa'AS, HH Al-Suod, ...</p> <p>Zeitschrift für Naturforschung B 76 (5), 293-302</p>	Journal
73.	<p><u>Design and synthesis of new energy restriction mimetic agents: Potent anti-tumor activities of hybrid motifs of aminothiazoles and coumarins</u></p> <p>H Fatema, HA Omar, RA Al-Qawasmeh, Z Ahmad, AM Jaber, DM Zaher, ...</p>	Journal

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76.	<p>Crystal structure of 3-(1-benzyl-2-ethyl-4-nitro-1H-imidazol-5-ylthio)-propanoic acid, C₁₅H₁₇N₃O₄S</p> <p>RA Al-Qawasmeh, YA Al-Soud, A Kafa'AS, MA Khanfar Zeitschrift für Kristallographie-New Crystal Structures 235 (3), 751-753</p>	Journal
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80.	<p>Synthesis, Characterization and Biological Evaluation of Metal Adamantyl 2-Pyridylhydrazone Complexes</p> <p>IA Shehadi, FA Delmani, AM Jaber, H Hammad, MA AIDamen, ...</p> <p>Molecules 25 (11), 2530</p>	Journal
81.	<p>Crystal structure and magnetic properties of a new Wells-Dawson [b-P₂CoW₁₇O₆₂]¹⁰⁻ polyoxoanion</p> <p>MA AIDamen, MO Sinnokrot, SB Atta, RA Al Qawasmeh, ...</p> <p>Журнал структурной химии 61 (4), 589-595</p>	Journal
82.	<p>Synthesis of stable aryldiazonium gold(III) salts</p> <p>B Kenney, E Okeke, B Workie, BE McCandless, AA Mohamed</p> <p>ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 259</p>	Conference
83.	<p>Green synthesis and cytocompatible nanoplatfoms based on organometallic nanoparticles</p> <p>AA Mohamed</p> <p>ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 259</p>	Conference

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Department of Applied Biology		
No.	Publication Name	Category*
1.	Shaimaa Al-Nablsi, Ali El-Keblawy , Muna A Ali, Kareem A. Mosa, Alshaimaa M Hamoda, Abdallah Shanableh, Ahmed M Almehti, Sameh SM Soliman (2022). Phenolic Contents and Antioxidant Activity of <i>Citrullus colocynthis</i> Fruits, Growing in the Hot Arid Desert of the UAE, Influenced by the Fruit Parts, Accessions, and Seasons of Fruit Collection. <i>Antioxidants</i> , 11(4), 656; https://doi.org/10.3390/antiox11040656	Journal
2.	Rahul Jamdade, Kareem A Mosa*, Ali El-Keblawy , Khawla Al Shaer, Eman Al Harthi, Mariam Al Sallani, Mariam Al Jasmi, Sanjay Gairola, Hatem Shabana, Tamer Mahmoud (2022). DNA Barcodes for Accurate Identification of Selected Medicinal Plants (Caryophyllales): Toward Barcoding Flowering Plants of the United Arab Emirates. Diversity , 14(4), 262; https://doi.org/10.3390/d14040262	Journal
3.	Muna A Ali, Sameh SM Soliman, Khalid Bajou, Ali El-Keblawy , Kareem A. Mosa* (2022). Identification of phytochemicals capping the exogenously biosynthesized silver nanoparticles by <i>T. apollinea</i> (Delile) DC. living plants and evaluation of their cytotoxic activity. <i>Biocatalysis and Agricultural Biotechnology</i> , https://doi.org/10.1016/j.bcab.2022.102336	Journal
4.	Ali El-Keblawy , Mariam Aljasmi, Sanjay Gairola, Kareem A. Mosa, Abdul Hameed (2021). Provenance determines salinity tolerance and germination requirements of the multipurpose tree <i>Prosopis juliflora</i> seeds. <i>Arid Land Research and Management</i> , https://doi.org/10.1080/15324982.2021.1889713	Journal

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69.	Al-Ali, M.M., Khan, A.A., Fayyad, A.M., Abdallah, S.H. and Khattak, M.N.K. , 2022. Transcriptomic profiling of the telomerase transformed	Journal

	Mesenchymal stromal cells derived adipocytes in response to rosiglitazone. <i>BMC genomic data</i> , 23(1), p.17.	
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	sensor, Sensing and Bio-Sensing Research 32 (2021) 100406	
15	Jannat Hammouche, M. Gaidi , S. Columbus & M. Omari, Journal of Inorganic and Organometallic Polymers and Materials (2021) https://doi.org/10.1007/s10904-021-01960-z .	Journal Article
16	Microstructure and electrical transport mechanisms of the Ca-doped LaMnO ₃ films grown on MgO substrate. K. Daoudi , S. El-Helali, Z. Othmen, B.M. Suleiman, T. Tsuchiya Journal of Materiomics 6 (2020) 17-23 DOI https://doi.org/10.1016/j.jmat.2019.10.002	Journal Article
17	Structural effects of silver-nanoprismdecorated Si nanowires on surface-enhanced Raman scattering Kais Daoudi , Mounir Gaidi, Hussain Alawadhi, Soumya Columbus, Di Zhang, Anis Allagui, Mohamed Shameer and Aya Taieb Journal of Nanotechnology 31 (2020) 255706 DOI https://doi.org/10.1088/1361-6528/ab80fa	Journal Article
18	Silver nanoprism/graphene oxide/silicon nanowires composites for R6G surface-enhanced Raman spectroscopy sensor Kais Daoudi , Mounir Gaidi and Soumya Columbus Biointerface Research in Applied Chemistry, 10 (2020) 5670. DOI https://doi.org/10.33263/BRIAC103.670674	Journal Article

19	<p>Electronic interactions between graphene and cobaltite thin film La_{0.7}Sr_{0.3}CoO₃ and its magnetic consequences</p> <p>Z. Othmen, R. Othmen, K. Daoudi, M. Boudard, A. Cavanna, A. Madouri, P. Gemeiner, D.C. Lupascu, M. Oueslati, B. Dkhil</p> <p>Surfaces and Interfaces 23 (2021) 100919</p> <p>https://doi.org/10.1016/j.surfin.2020.100919</p>	Journal Article
20	<p>Searching for GeV-scale Majorana Dark Matter: inter spem et metum,</p> <p>Jueid, A., Nasri, S., Soualah, R.</p> <p>Journal of High Energy Physics, 2021, 2021(4), 12</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
21	<p>Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Journal of High Energy Physics, 2021, 2021(4), 174</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
22	<p>Erratum: Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector (Journal of High Energy Physics, (2020), 2020, 11, (5), 10.1007/JHEP11(2020)005)</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>

	Journal of High Energy Physics, 2021, 2021(4), 142	
23	<p>Measurement of the CP-violating phase ϕ_s in $B_s^0 \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>European Physical Journal C, 2021, 81(4), 342</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
24	<p>Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Journal of High Energy Physics, 2021, 2021(4), 165</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
25	<p>Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton–proton collisions</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>European Physical Journal C, 2021, 81(4), 334</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
26	<p>Search for heavy resonances decaying into a pair of Z bosons in the $l+l-l'+l'$ - and $l+l-\nu\nu^-$ final states using 139 fb⁻¹ of proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>European Physical Journal C, 2021, 81(4), 332</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>

27	<p>Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>European Physical Journal C, 2021, 81(4), 313</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
28	<p>Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Journal of High Energy Physics, 2021, 2021(3), 268</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
29	<p>Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Physical Review Letters, 2020, 125(26), 261801</p>	<p>Journal Article</p> <p>Q1: top 95 %</p>
30	<p>Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p>	<p>Journal Article</p> <p>Q1: top 95 %</p>

	Physical Review Letters, 2020, 125(25), 251802	
31	<p>Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton-proton collisions at $s = 13$ TeV with the ATLAS detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Physical Review D, 2020, 102(11), 112008</p>	<p>Journal Article</p> <p>Q1: top 95 %</p>
32	<p>Search for Higgs boson decays into two new low-mass spin-0 particles in the 4b channel with the ATLAS detector using pp collisions at $s = 13$ TeV</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Physical Review D, 2020, 102(11), 112006</p>	<p>Journal Article</p> <p>Q1: top 95 %</p>
33	<p>Alignment of the ATLAS Inner Detector in Run 2</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>European Physical Journal C, 2020, 80(12), 1194</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
34	<p>Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Physical Review Letters, 2020, 125(22), 221802</p>	<p>Journal Article</p> <p>Q1: top 95 %</p>

35	<p>Reconstruction and identification of boosted di-τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS</p> <p>Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah, ..., Zou, R., Zwalinski, L.</p> <p>Journal of High Energy Physics, 2020, 2020(11), 163</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>
36	<p>Wigner function non-classicality induced in a qubit interacting with a dissipative magnetic eld cavity</p> <p>A.-B. A. Mohamed, E. M. Khalil, A. Y. AL-Rezami and H. Eleuch</p> <p>Symmetry 13, 802 (2021).</p>	<p>Journal Article</p>
37	<p>Entanglement dynamics induced by a squeezed coherent cavity coupled nonlinearly with a qubit and lled with a Kerr-like medium</p> <p>A.-B. A. Mohamed, and H. Eleuch</p> <p>Entropy 23, 496 (2021).</p>	<p>Journal Article</p>
38	<p>Atomic population inversion and absorption-dispersion spectra driven by modi ed double-exponential quotient pulses in three-level atom</p> <p>N. Boutabba, S. Gira and H. Eleuch</p> <p>Results in Physics 24, 104108 (2021).</p>	<p>Journal Article</p>

39	<p>Tavis-Cummings model with moving atoms</p> <p>Kamal Berrada, Sayed Abdel-Khalek, Eied M. Khalil, Hichem Eleuch, Abdel-Shafy F Obada, and Esraa Reda</p> <p>Entropy 23, 452 (2021).</p>	Journal Article
40	<p>Solutions to the Konopelchenko-Dubrovsky equation and the Landau-Ginzburg-Higgs equation via the generalized Kudryashov technique</p> <p>Hemonta Kumar Barman, M. Ali Akbar, M.S. Osman, Kottakkaran Sooppy Nisar, M. Zakarya, Abdel-Haleem Abdel-Aty, and H. Eleuch</p> <p>Results in Physics 24, 104092 (2021).</p>	Journal Article
41	<p>Dynamics of nonclassical properties of a $Su(3)$-system interacting with an open two parametric amplifier modes</p> <p>A.-B. A. Mohamed, H. A. Hessian, A.-S. F. Obada and H. Eleuch</p> <p>JOSA B 38, 1556 (2021).</p>	Journal Article
42	<p>Optical tomography dynamic for time-dependent coherent states generated by an open qubit-cavity system</p>	Journal Article

	<p>A.-B. A. Mohamed, E. M. Khalil, M. M. Selim and H. Eleuch</p> <p>Results in Physics 22, 103940 (2021).</p>	
43	<p>Two-qubit local Fisher information correlation beyond entanglement in a nonlinear generalized cavity with an intrinsic decoherence</p> <p>A.-B. A. Mohamed, E. M. Khalil and H. Eleuch</p> <p>Entropy 23, 311 (2021).</p>	Journal Article
44	<p>Accurate novel explicit complex wave solutions of the (2+1){dimensional Chiral nonlinear Schrodinger equation</p> <p>B. Alshahrani, H. A. Yakout, Mostafa M. A. Khater, Abdel-Haleem Abdel-Atyd, Emad E. Mahmoud, Dumitru Baleanu, and H. Eleuch</p> <p>Results in Physics 23, 104019 (2021).</p>	Journal Article
45	<p>Dephasing Process of a Single Atom Interacting with a Two-Mode Field</p> <p>E. M. Khalil, K. Berrada, S. Abdel-Khalek, Beida Alsubei and H. Eleuch</p> <p>Entropy 23, 252 (2021).</p>	Journal Article

46	<p>Quantum Fisher information and Bures distance correlations of coupled two charge-qubits inside a coherent cavity</p> <p>with the intrinsic decoherence</p> <p>A.-B. A. Mohamed, E. M. Khalil, M. Selim and H. Eleuch</p> <p>Symmetry 13, 352 (2021).</p>	Journal Article
47	<p>Analysis of voltage and current flow of electrical transmission lines through mZK equation</p> <p>M. A. Akbar, Md. A. Kayum, M. S. Osman, A. H. Abdel-Aty, and H. Eleuch</p> <p>Results in Physics 20, 103696 (2021).</p>	Journal Article
48	<p>Long-time protection of correlations and coherence in squeezed thermal bath</p> <p>K. Berrada and H. Eleuch</p> <p>Chaos, Solitons & Fractals 143, 110501 (2021).</p>	Journal Article
49	<p>Dynamics of trace distance and Bures correlations in an open three-qubit XY chain: Intrinsic noise model</p>	Journal Article

	A-H. Abdel-Aty, A. B. A. Mohamed, and H. Eleuch Physica E 128, 114529 (2021).	
50	Detecting topological edge states with the dynamics of a qubit M. Zaimi, C. Boudreault, N. Baspin, H. Eleuch , R. MacKenzie, and M. Hilke Physics Letters A 388, 127035 (2021).	Journal Article
51	Einstein-Podolsky-Rosen steering and nonlocality in quantum dot systems K. Berrada, and Hichem Eleuch Physica E, 126 114412 (2021).	Journal Article
52	Non-Classical Computing Problems: Toward Novel Type of Quantum Computing Problems M. Zidan, M. Abdel-Aty, Hichem Eleuch , Abdel-sha Obada Results in Physics 21, 103536 (2021)	Journal Article
53	Bures and Trace-Distance Correlations of Quantum Wells in Open Microcavities Linked by an Optical Waveguide A.-B. A. Mohamed, M. Abdel-Aty, and H. Eleuch Optik 225, 165744 (2021).	Journal Article

54	Optical Kerr nonlinearity in quantum-well micro cavities: From polariton to dipolariton, H. Jabri and H. Eleuch , Phys. Rev. A 102, 063713 (2020).	Journal Article
55	Correlation Dynamics of Nitrogen Vacancy Centers Located in Crystal Cavities, A-H Abdel-Aty, H. Kadry, A.-B. A. Mohamed and H. Eleuch , Scientific Reports 10, 16640 (2020).	Journal Article
56	Hybrid Two-Mode Squeezing of Microwave and Optical Fields Using Optically Pumped Graphene Layers, M. Qasymeh and H. Eleuch , Scientific Reports 10, 16676 (2020).	Journal Article
57	Non-classical effects for a qubit coupled to a coherent two-mode cavity with intrinsic de-coherence, Abdel-Baset A. Mohamed, E. M. Khalil, A.-S. F. Obada, Hichem Eleuch , Abdel-sha Obada, Results in Physics 19, 103370 (2020).	Journal Article
58	On the interaction between (low & high) frequency of (ion-acoustic & Langmuir) waves in plasma via some recent computational schemes, M. M. A. Khather, R. A. M. Attia, E. E. Mahmoud, A. H. Abdel-Aty, K. H.	Journal Article

	Abualnaja, A.B.A Mohamed and H. Eleuch , Results in Physics 19, 103684 (2021).	
59	Quantum effects in two-qubit systems interacting with two-mode fields: Dissipation and dipole-dipole interplay effects, Mostafa Khater, Abdel-Baset A. Mohamed, Hichem Eleuch , Abdel-shafi Obada, Results in Physics 17, 103019 (2020).	Journal Article
60	Quantum control of an optically dense atomic medium: pulse shaping in a V-type three-level system, N. Boutabba and Hichem Eleuch , Results in Physics 19, 103421 (2020).	Journal Article
61	New approach to approximate the solution of fractional order Volterra integro-differential equations, Muhammad Akbar, Rashid Nawaz, Sumbal Ahsan, K.S.Nisar, Abdel-Haleem Abdel-Aty, and H. Eleuch , Results in Physics 19, 103453 (2020).	Journal Article
62	Quasi-Probability Husimi-Distribution Information and Squeezing in a Qubit-System Interacting with a Two Mode Parametric Amplifier cavity, E. M. Khalil, Abdel-Baset Mohamed, A.-S. F. Obada, and H. Eleuch, Mathematics 8, 1830 (2020).	Journal Article
63	Kretschmar P., et al. (including A. Manousakis), New Astronomy Reviews, 86, 101546. doi:10.1016/j.newar.2020.101546	Review Journal Article Q1 top 89%

64	Mereghetti S., et al. (including A. Manousakis), 2021, Accepted in Experimental Astronomy.	White paper Journal Article Q2 top 55%
65	A natural scotogenic model for neutrino mass & dark matter A. Ahriche, A. Jueid & S. Nasri, Phys.Lett. B814 (2021) 136077. DOI: 10.1016/j.physletb.2021.136077	Jornal article Q1 top 95%
66	Dark matter nature at electron-positron colliders: scalar or fermionic? N. Baouche & A. Ahriche, J.Phys.Conf.Ser. 1766 (2021) no.1, 012021. DOI: 10.1088/1742-6596/1766/1/012021	Proceeding paper
67	Identifying the higgs-gauge boson couplings signs at leptonic colliders H. Hamdellou & A. Ahriche, J.Phys.Conf.Ser. 1766 (2021) no.1, 012019. DOI: 10.1088/1742-6596/1766/1/012019	Proceeding paper
68	“Improving Stability of Organometallic-halide Perovskite Solar Cells Using Exfoliation Two-Dimensional Molybdenum” Me. Liang, A.Ali, A.Belaidi, M.I.eHossain, O. Ronan, C. Downing, N.Tabet, S. Sanvito, F. EI-Mellouhi & V. Nicolosi npj 2D Mater Appl 4, 40 (2020).	Journal Article Q1, 95%
69	“Contribution of Meteor Flux in the Occurrence of Sporadic-E over Arabian Peninsula,” Shaikh M. M.,	Journal Article

	Gopakumar G., A. Al-Owais, and M. Sharif, Fernini, I (2021), Annales Geophysicae, Accepted.	
70	“Reporting Pre-Sunset Scintillation on GNSS Frequencies over Arabian Peninsula,” M. M. Shaikh and I. Fernini, Proceedings of the 2021 International Technical Meeting, ION ITM 2021, January 25-28, 2021, https://doi.org/10.33012/2021.17857	Proceeding Paper
71	“Daytime GNSS scintillation due to Es over Arabian Peninsula in Low Solar Activity,” Shaikh M. M., Gopakumar G., AbdelRahman H. K., Kashcheyev A., and Fernini I. (2020), Results in Physics, https://doi.org/10.1016/j.rinp.2020.103761 .	Journal Article
72	“Detection of Jovian Radio Emission at 20.1 MHz with a Decametric Radio Array”, I. Fernini, M. Rihan, A. Yousef, S. R. Madara, F. Al Aydaros, and A. AlHameed, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper
73	“Observing at 1.4 GHz with the Sharjah New 40-m Radio Interferometer”, A. Asmaa, I. Fernini, A. Manousakis, H. AlNaimiy, A. Noorani, and A. Javed, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper
74	“The High Energy Astrophysics Group in the Light of Sharjah-Sat-1 and Future Projects”, A. Manousakis, N. AlAmeri, M. AlQasimi, E. Kalamci, I. Fernini, and H.	Proceeding Paper

	AlNaimiy, IAC 2020 Cyber Space Edition, 12-14 October 2020	
75	“Promoting STEM through the Sharjah Academy for Astronomy, Space Sciences, and Technology,” I. Fernini and H. AlNaimiy, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper
76	In-field characterization of key performance parameters for bifacial photovoltaic installation in a desert climate Baloch, A.A.B., Hammat, S., Figgis, B., Alharbi, F.H., Tabet, N. 159, pp. 50–63 Renewable Energy , 2020,	Journal Article Q1 90 th
77	“Sustainability of Artificial Martian Atmosphere,” I. Fernini, R. Fernini, A. Noorani, M. AlShamsi, and M. AlQasimi, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper
78	“SharjahSat-1 Thermal Analysis for Orbit-Launch Selection”, I. AlSabt, T. AlKaabi, S. R. Madara, I. Fernini, B. Karabulut, E. Catal, H. Telli, H. AlNaimiy, and A. R. Aslan, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper
79	“Lunar Flashes,” M. Talafha, I. Fernini, H. AlNaimiy, F. Chogle, and A. Pratap, IAC 2020 Cyber Space Edition, 12-14 October 2020	Proceeding Paper

80	<p>“SAASST Ground Station: Satellite Tracking and Control for High Data Rates,” T. AlKaabi, I. AlSabt, S. R. Madara, I. Fernini, B. Karabulut, A. R. Aslan, and H. AlNaimiy, IAC 2020 CyberSpace Edition, 12-14 October 2020</p>	Proceeding Paper
81	<p>“Occurrence of Pre-sunset L-band and E-band Scintillation Due to Strong Presence of Sporadic-E over Arabian Peninsula,” M. M. Shaikh, I. Fernini, G. Gopakumar, N. M. Alameri, <i>Advances in Space Research</i>, https://doi.org/10.1016/j.asr.2020.02.011, 2020</p>	Journal Article
82	<p>Bifacial Schottky-Junction Plasmonic-Based Solar Cell Farhat, M., Baloch, A.A.B., Rashkeev, S.N., ...Kais, S., Alharbi, F.H. <i>Energy Technology</i>, 2020, 8(5), 1901280</p>	Journal Article Q1
83	<p>“The UAE Meteor Monitoring Network,” I. Fernini, M. Talafha, I. Abu Jami, A. Al-Owais, R. Fernini, A. Ahmad, M. Sharif, M. Al-Naser, Y. Eisa, S. Zarafshan, S. Subhi, <i>Journal of Instrumentation</i>, DOI: 10.1088/1748-0221/15/06/T06007 - 2020</p>	Journal Article
84	<p>“Sharjah Five-Meter Radio Telescope,” I. Fernini, H. M. Al-Naimiy, A. Alhameed, A. Noorani, A. Javed, and A. Abujami, <i>Journal of Instrumentation</i>, 15, P01033, 2020</p>	Journal Article

85	<p><i>“Asymptotic entanglement sudden death in two atoms with dipole-dipole and Ising interactions coupled to a radiation field at non-zero detuning.”</i></p> <p>Gehad Sadiq, Wiam Al-Drees, Salwa Shaglel, Hala Elhag,</p> <p>Entropy 23, 629 (2021), arXiv:2105.05694</p>	Journal article
86	<p>Huda Aslam, Tarig Ali, Md Maruf Mortula, Atta G. Attaelmanan. Evaluation of microplastics in beach sediments along the coast of Dubai, UAE, Marine Pollution Bulletin (2020) 150:110739.</p> <p>https://doi.org/10.1016/j.marpolbul.2019.110739</p>	Journal article
87	<p>Atta G. Attaelmanan, Eissa Yousif, Sabah Jasim. Glass-working evidence at Dibba, United Arab Emirates: An archaeometric study. Journal of Archaeological Science: Reports, 30 (2020) 102267.</p> <p>https://doi.org/10.1016/j.jasrep.2020.102267</p>	Journal article
88	<p>B.M. Suleiman, K. Daoudi, A.G. Attaelmanan, M. Al Zaylaie, M. Gustavsson, Modified Clay as Thermal Backfill Material for Buried Electrical Cables, Thermal Science and Engineering Progress, 19 (2020),</p> <p>https://doi.org/10.1016/j.tsep.2020.100589</p>	Journal article
89	<p>Hafiz Omer Ahmed, Attaelmanan Gaffar Attaelmanan, Fatima Ibrahim AlShaer and Eman Mohamed Abdallah. Determination of metals in</p>	Journal article

	children’s plastic toys using X-ray florescence spectroscopy. Environmental Science and Pollution Research (2021), https://doi.org/10.1007/s11356-021-13838-1	
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* Category: Book, Journal, Book Chapter, Conference, Technical Report, Manual, Artistic Work ...etc.

Funded Research

Grants & Research Activities Summary

Research Activity Category	DC	DAB	DM	DAPA	Total
Funded Research	9	14	4	19	71
Focused Research Groups	0	3	2	1	2
Research Events	6	38	10	4	62
Research Seminars	5	10	10	10	23
Total	20	65	26	34	158

Total Amount Research Fund AED 17,076,000

Department of Chemistry				
No.	Project Title	Principal Investigator	Grant Source	Amount (AED)
1.	Method development, validation, and survey sample analysis of Tutin in honey by HPLC, Student ID: 19103721	Dr. Abdelaziz Elgamouz	College of Graduate studies, UOS	6,000
2.	“UAE Cyperus Conglomeratus Seeds Extract as a Corrosion Inhibitor for Mild Steel in HCl Solution” Student Research grant: Date: 13/10/2020 Ref. V.C.R.G / R. 1536/2020	Dr. Ayssar Nahlé	UOS	5,000
3	UAE Calligonum Comosum Seeds Extract as a Corrosion Inhibitor for Mild Steel in HCl Solution” Student Research grant: Date: 24/02/2021 Ref. V.C.R.G / R. 1656/2021	Dr. Ayssar Nahlé	UOS	5,000
4	“ Computational Mutagenesis Studies to Explore the Drug Resistance Mechanisms for Nonsmall Cell Lung Cancer (NSCLC) Treatment” Student ID: u14220077, u14121212, u16200444	Dr. Mahreen Arooj	UOS	5,000
5	Developing sustainable catalysts <i>via</i> effective anchoring of Cu(II) Schiff Base complexes on magnetic chitosan and their application	Dr. Kamrul Hasan	UOS	80,000

	in C-C and C-N coupling reactions towards organic synthesis, (<i>competitive grant for Sept. 2019-Sept. 2022</i>); <i>Ref. V.C.R.G. / R 438/2019 (All)</i>			
6	Synthesis and characterization of magnetic Fe ₃ O ₄ @BA@PANI composite as adsorbent for methyl orange (MO) removal. . V.C.R.G./R. 1656/2021	Dr. Kamrul Hasan	UOS	5,000
7	Synthesis and characterization of magnetic chitosan furan imine palladium (MCFIP) complex for Suzuki coupling reactions coupling. V.C.R.G./R. 11656/2021	Dr. Kamrul Hasan	UOS	5,000
8	Synthesis of new 1,2,4-triazole derivatives with potential antimicrobial activity	Dr. Mohamed El-Naggar	UOS	5000
9.	Protein Fish denaturation	Dr Abdelaziz Elgamouz	UOS	176,000
Total				292,000

Department of Applied Biology				
No.	Project Title	Principal Investigator	Grant Source	Amount (AED)
1.	Physiological, biochemical and molecular responses of vegetable crops to metal nanoparticles: a phytotoxicity assessment	Kareem Mosa	University of Sharjah	189,000 AED (2021-2023)
2.	Elicitation of bioactive phytochemicals by copper nanoparticles in callus cultures of the UAE medicinal plant <i>Tephrosia apollinea</i> .	Kareem Mosa	University of Sharjah	5,000 AED (Undergraduate research project, Spring 2021-2022)
3.	Investigating the inflammatory role of diesel exhaust particles in lung cancer progression and the potential of vitamin D as a cancer therapeutic agent	Khalid Bajou	University of Sharjah	5,000 AED (Undergraduate research project, Fall 2021-2022)
4.	Anti- Angiogenic Effect of Cinnamon Nanoparticles on Human Endothelial Cells	Khalid Bajou	University of Sharjah	5,000 AED (Undergraduate research project, Fall 2021-2022)
5.	Hydroxychloroquine effect on fibrinolytic system	Khalid Bajou	University of Sharjah	5,000 AED (Postgraduate research project, Fall 2021-2022)
6.	Targeting Plasminogen Activator Inhibitor-1 (PAI-1) to inhibit Tumor Angiogenesis.	Khalid Bajou	University of Sharjah	15,000 AED (Master thesis research project, Fall 2021-2022)

7.	Can the translational inhibitor 'Pateamine A' affect the stem cell differentiation into the three mesodermal lineages?	Amir Ali Khan	University of Sharjah	79,000 AED, competitive grant
8.	In vitro differentiation of Mesenchymal stem cells (MSCs) into germ cells: A cell therapy based approach for fertility restoration.	Amir Ali Khan	University of Sharjah	200,000 AED Targeted grant
9.	The Role of Mir 22-3p in the neurogenic differentiation of Dental Pulp Stem Cells	Amir Ali Khan	University of Sharjah	15,000 Master thesis project
10.	Invasions dynamics of native and exotic Prosopis species and their impacts on functional traits of associated native plants in the hyper-arid deserts of the Gulf regions	Ali El-Keblawy	University of Sharjah	AED192,000
11.	Impacts of environmental factors on germination, growth, oil yield and composition and biologically active anticancer compounds in <i>Citrullus colocynthis</i>	Ali El-Keblawy	University of Sharjah	AED194,000
12.	Seasonal variation of antimicrobial activity of two native shrubs (<i>Senna Italica</i> and <i>Rhynchosia minima</i>) in the arid deserts of the UAE	Ali El-Keblawy	University of Sharjah	5,000 AED (Undergraduate research project, Spring 2021-2022)
13.	Seasonal variation of antioxidant activity of two native shrubs (<i>Senna Italica</i> and <i>Rhynchosia minima</i>) in the arid deserts of the UAE.	Ali El-Keblawy	University of Sharjah	5,000 AED (Undergraduate research project, Spring 2021-2022)

14.	Assessments of the quantity and biological activity of Major Royal jelly Protein1 (MRJP1) in royal jelly from different sources in the UAE	Ali El-Keblawy	University of Sharjah	15,000 AED (Master thesis research project, Fall 2021-2022)
Total				929,000

Department of Mathematics				
No	Project Title	Principal Investigator	Grant Source	Amount (AED)
1	"On the stability of some wave and viscoelastic systems with non-standard nonlinearities"	Prof. Salim Messaoudi	UOS	30000
2	Molecular Descriptors for Special Nanostructures	Zahid Raza	University of Sharjah, UAE	46000
3	Extremal Graphs with respect to Zagreb Connection Index	Zahid Raza	University of Sharjah, UAE	48000
4	Numerical and Applied Mathematics project ID: #21021440101	Aziz Takhirov	UOS	40000
5	Algebraic and Discrete Structures with Some Finiteness Conditions	Ali Jaballah	University of Sharjah, UAE	14000
Total				178000

Department of Applied Physics and Astronomy				
No	Project Title	Principal Investigator	Grant Source	Amount (AED)
1	Targeted Project 2020-2023: Copper-Silver Nanoparticles decorated Silicon Nanowires/TiO ₂ nanocomposite for highly sensitive and fast gas/bio-sensing and water treatment applications, Funded by the University of Sharjah	Mounir Kaidi	University of Sharjah	196,000 AED
	Covid 19-Project 2020-2021: Development of highly sensitive and fast detection technique for Corona Virus (COVID19) based on Metal Nanoparticle decorated Silicon Nanowires/TiO ₂ nanocomposite.	Mounir Kaidi	University of Sharjah	209,000 AED
3	Collaborative project 2019-2021: Development of Graphene-doped Silicon Nanowires for room temperature polluting gas sensors and air quality control	Mounir Kaidi	Sharjah research academy and the University of Sharjah.	200,000 AED
4	Competitive Research	Bashir Suleiman	University of Sharjah	75,000 AED

	Investigation the Thermal properties of the Al-Cladding Facades in UAE			
5	Covid 19-Project 2020-2021: A novel non-Invasive, rapid, and economic diagnostics for Covid-19 using magnetic particle spectroscopy technology.	Hafsa Khurshid	University of Sharjah	210,000 AED
6	Competitive Research Grant: Fabrication and characterization of magneto-plasmonic hybrid nanoclusters for photo and magnetothermal therapy of cancer cells.	Hafsa Khurshid	University of Sharjah	80,000 AED
7	Seed Grant: TBC (Pending)	Antonios Manousakis	University of Sharjah	40,000 AED
8	Development of a baseline for the fabrication of Perovskite Solar Seed Project	Nouar Tabet	University of Sharjah	40,000AED
9	Competitive Research Grant: Logotropic Cosmology	Hachemi Benaoum	University of Sharjah	80,000AED
10	Competitive Research Grant: Quantum control of interacting two-level quantum systems using a quantized radiation field	Gehad Sadiak	University of Sharjah	80000
11	Competitive Research Grant:	Gehad Sadiak	University of Sharjah	80000

	Quantum entanglement sharing in two interacting two-level atoms coupled to an off-resonance quantized radiation field			
12	Absorber Engineering and Interface Design for stable and efficient Perovskite solar cells Targeted Project 2020-2023	Nouar Tabet	University of Sharjah	200,000
13	Developing Agrivoltaics in UAE: An integrated Approach for the sustainable production of electricity and Food in unfertile soils and hot climates Targeted Project 2020-2023	Nouar Tabet	University of Sharjah	200,000
14	Probing the Majorana Neutrino Nature in Radiative Neutrino Mass Models at Current and Future Colliders. --> Competitive Research Grant	Rachik Soualah	University of Sharjah	66 000
15	Investigation of carbon phases in carbonaceous-chondrite inclusions in stony meteorites. Competitive Research Grant	Yassir Abdu	University of Sharjah	80,000
16	Hunting for New Physics at Colliders Competitive project	Amine Ahriche	University of Sharjah	80.000
17	Extended Higgs sector at colliders: constraints & predictions Seed project	Amine Ahriche	University of Sharjah	40.000

23				
Total				1,957000

Membership in Research Entities

Department of Chemistry				
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	2019	Prof. Muataz Ali
2.	“Environment and Cancer Research Group”	Wael Abdel-Rahman MoezAllIslam ;Hassan Ezzat Faris; Maha ;Mohamed Saber Ayssar Nahle; Eman Farouk Mahmoud Abu-Gharbieh; Iman Talaat; Gianfranco Pintus	2017	Prof. Wael Abdel-Rahman Hassan
3	Environmental and Chemical Biology Research Group for the academic year	Ali Al Kiblawi Kareem Mousa Ahmed Almehti Sameh Solieman Ihsan Shehadi	2019/202	Prof. Ali Alkiblawi

		Ismail Saadoun		
4.	Center for Advanced Materials Research	Hussain Alawadhi Abdul Hai Al-Alami Mounir GAIDI Anis Allagui Kais Daoudi Victor Gillette Iyad Al Qasir Hachemi B. Benaoum Attaelmanan Gaffar Ahmad Ali Muhammad Raed A. Al-Qawasmeh	2020	Hussain Alawadhi

Department of Applied Biology				
No.	Group Title	Group Members	Start Date	Coordinator
1.	Human Genetics & Stem Cells	Dr. Abdelaziz Tlili Dr. Amir Khan Dr. Hassen Hadj Kacem Dr. Abdullah Al Mutery Dr. Muhammad Nasir Khan	September 2015	Dr. Khalid Bajou
2.	Bioinformatics and Functional Genomics	Dr. Hassen Hadj Kacem Dr. Kareem Mosa	Jan 2018	Co-Coordinator Dr. Hassen Hadj Kacem
3.	Environmental & Chemical Biology Research Group	Prof. Ali El-Keblawy Prof. Ismail Saadoun Dr. Kareem Mosa Dr. Ihsan Shehadi Dr. Ahmed Al Mehdi Dr. Sameh Soliman		Dr. Ahmed Al Mehdi

Department of Mathematics				
No.	Group Title	Group Members	Start Date	Coordinator
1.				

Department of Applied Physics and Astronomy				
No	Group Title	Group Members	Start Date	Coordinator
1	The ATLAS Collaboration at CERN, Geneva, Switzerland	R. Soualah		ATLAS Collaboration
2	The National Institute for Nuclear Physics (INFN), Italy	R. Soualah		INFN
3	HECAP section at the International Center for Theoretical Physics (ICTP), Trieste, Italy	A. Ahriche & R. Soualah		HECAP@ICTP
4	The UAE ATLAS Cluster	A. Ahriche & R. Soualah		R. Soualah
5	ATHENA X-ray Telescope	A. Manousakis		

6	Workplace Health, safety and Wellbeing – Sustainability Circle	Omar Adwan		
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Research Events

Department of Chemistry					
No.	Event Name	Type*	Scope**	Date	Beneficiaries
1.	Chemistry senior research presentation	Oral presentation	University	December 22, 2020	Students, faculty and staff
2.	Chemistry senior research presentation	Oral presentation	University	May 4, 2021	Students, faculty and staff
3.	MSC in Chemistry research presentation	Oral presentation	University	May 1, 2021	Students, faculty and staff
4.	Fatima Abla MSc Student defence	Oral presentation	University	May 16, 2021	Students, faculty and staff
5.	The Fourth International Symposium on "Analytical Chemistry for a Sustainable Development"- ACSD 2021, March.	Conference	International, Mohammedia-Morocco	9- 11, 2021	International Scientific community
6.	The 5 th conference on Arab and Muslims	Conference	University of Sharjah	4-6 April 2021	International Scientific community

Department of Applied Biology					
No.	Event Name	Type*	Scope**	Date	Beneficiaries
1.	The Second Forum for Women in Research, QUWA: Empowering Women in Research & Innovation, Organized by the Office of Vice Chancellor for. Research & Graduate Studies,	Webinar	Local, National and International	Aug. 26, 2021	UoS, Community

2.	"Organic Farming" seminar series organized by the Linking Education and Farming "LEAF" Sustainability Circle. Organized by Sustainability Office, UoS. Sept. 8 th , 2021,	Webinar	Local	Sept. 8, 2021,	UoS
3.	SciVal for University of Sharjah Workshop. Presented by Wael Mansour Customer Consultant – RI. Organized by VCRFS Office/UoS. Sept. 15 th , 2021.	Workshop	Local	Sept. 15 th , 2021.	UoS
4.	Increasing your scientific productivity with ScienceDirect	Workshop	Local	Sep. 29th, 2021.	UoS
5.	The 14th Research Café Talk: Leadership for the Greater Good, organized by The Office of Vice Chancellor for Research & Graduate Studies	Webinar	Local	October 17, 2021	UoS
6.	A research workshop: Pre-Award: Research Funding Opportunities. Grants and Guidelines. Dr. Chaouki Ghenai, Chairman of the Research Funding Department. Organized by VCRFS Office/UoS	Online workshop	Local	Oct. 28 th , 2021.	UoS
7.	Past, Current and Future Developments of Bioactive Glasses for Biomedical Applications Workshop. organized by the Office of Vice Chancellor for Research & Graduate Studies	Online workshop	Local	Nov. 17, 21.	UoS
8.	12th Biotechnology Students' Exhibition	Online Exhibition	Local	Nov. 25th, 2021.	Co.Sci, DAB

9.	CoS_MSc students' seminar series AY 2021-2022 organized by College of Sciences	Webinar	Local	November 28, 2021	Co.Sci
10.	9 th Pan Arab Human Genetics Conference organized by Center for Arab Genome Studies and Sheikh Hamdan Bin Rashed AlMaktoum Award for Medical Sciences on	Online Conference	Local, national and international	December 8 and , 2021,	Faculty who attended: Racha Al-Khoury, Tasneem Obaid
11.	Biotechnology Students' Research Project Defense. DAB/MSTeams.	Symposium	National	Dec. 20, 2021	DAB
12.	UoS Moving Forward in Graduate Student Research with Impact on Community.	Webinar	Local	Dec. 22 nd , 2022. Ismail	UoS
13.	" Sharjah Meeting on Science Parks and Innovation" organized by the Office of the Vice Chancellor for Research and Graduates Studies through the Technology Transfer Office and the Research Outreach Department	Meeting	Local and National	December 23, 2021	UoS, Local community
14.	Innovate with Merck organized buy KGaA in Darmstadt, Germany.	Webinar	Local, national and international	Jan, 11, 2022	UoS
15.	15 th Research Café Talk titled "Empowering Pandemic Response and Connected Health using AIoT" organized by Research Outreach Department	Webinar	Local	Feb. 7, 2022	UoS
16.	Connect_CoS Seminar series organized by College of Sciences	Webinar	Local	Feb. 17, 2022	Co.Sci

17.	The 16 th Research Café Talk: Work-Life Balance in Academia: Fact or Fiction organized by Office of Vice Chancellor for Research & Graduate Studies	Webinar	Local	Feb. 21, 2022,	UoS
18.	"Physics at the Large Hadron Collider" Seminar	Webinar	Local	February 23rd, 2022.	Co.Sci.
19.	4th International Multiconferences in Advances in Science and Engineering Technology (ASET). Conference organized by the Higher college of Technology	Online Conference	Local, National and International	Feb 21-24.	Local scientific community
20.	<i>Research at UoS: "Opportunities, Grants and Expectations"</i> . The Office of VCRGS.	Online workshop	Local	March 3 rd , 2022.	UoS
21.	College of Sciences serving the community organized by Co. Sci. On	Webinar	Local, national	March 3 rd , 2022.	UoS and local community
22.	"Puzzling Particles" by Prof. John Ellis, organized by Department of Applied Physics, Co.Sci,	Webinar	Local	March 8, 2022	Co.Sci
23.	Sharjah UAE Innovation Month organized by Sharjah Government and UAE Innovates	Symposium	Local, national	March 10-14, 2022	UoS and local community
24.	Role of Biotechnology in a Modern Society. President of Republic of Estonia, Dr. Alar Kares	Seminar	International	March 21, 2022	DAB, UoS
25.	The Online Press Conference for Launching The 3rd Forum for Women in Research "Quwa: Women Empowerment for Global Impact"	Press Conference	Local, national and international	March 29, 2022	UoS, local community

	organized by Research outreach department at UoS				
26.	“Still Searching for planet X” Seminar	Webinar	Local	April 6 th , 2022	UoS
27.	UAE Native Plants: Unique applications in chemistry, Pharmacology and Biotechnology organized by DAB, Co. Sci Presented by: Prof. Ali El Keblawi Dr. Kareem Mosa Dr. Sameh Soliman.	Webinar	Local	April 11 th , 2022	UoS, Co.Sci. Co.Pharmacy, DAB
28.	The 17th Research Café Talk: Responsible Conduct of Research: Clinical versus Pre-clinical Research organized by Office of Vice Chancellor for Research & Graduate Studies	Webinar	Local	April 18, 2022	UoS
29.	Connect_CoS Seminar Series organized by College of Sciences in Fall and Spring 21-22	Webinar	Local	April 21, 2022	UoS
30.	Simulation workshop organized by the Department of Chemistry, Co.Sci	Workshop	Local	April 25, 2022	Co.Sci
31.	“Your Guide to Scopus Journals”. Research Workshop. Prof. Maamar Bettayeb.	Workshop	National	25-4-22	UoS
32.	Biotechnology Students’ Research Project Defense. DAB/W8-006. May 17 th , 2022	Symposium	National	17-5-22	DAB

33.	14 th UoS Research Forum. The Office of VCRGS.	Forum	Local	May 18, 2022	UoS
34.	Bioinformatics and Functional Genomics Presented by Dr. Hassen Hadj Kacem	Webinar	Local	May 21, 2022	UoS, Co.Sci,
35.	"خدمة في الشارقة بجامعة العلوم كلية المجتمع"	Seminar	Local	March 3, 2022	UoS, CoSci
36.	Knowledge Summit 2022, Govt. of Dubai	Summit	National	Mar. 16-18, 2022	Local community
37.	"UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology"	Seminar	Local	April 11, 2022	UoS, CoSci
38.	البحث: بعنوان بحثية ورشة لحضور دعوة والمنح الفرص: الشارقة جامعة في العلمي والتوقعات	Workshop	Local	April 14, 2022	UoS, CoSci development

Department of Mathematics					
No	Event Name	Type*	Scope**	Date	Beneficiaries
1	52 nd Southeastern International Conference on Combinatorics, Graph Theory, and Computing (SEICCGTC) Florida Atlantic University, FL. USA	International Conference (VIRTUAL)	Research	March 8-12 2021	Faculty and researchers

2	International Webinar on Applied Mathematics and Modelling, held on	International Webinar	Research	September 24, 2020	Faculty and researchers
3	The first Mathematics Gathering	Workshop	Teaching and Research	Feb. 23, 2021	Faculty and undergraduate students
4	Pearson Middle East MyLab Math workshop and product demonstration	Workshop	Teaching	April 18, 2021	Faculty Members
5	Best Teaching Practices Workshop- Course management: Documentation & Task Stream	Workshop	Teaching	Dec. 10, 2020	Faculty Members
6	Successful Online Exams: The Faculty Perspectives	Workshop	Teaching	Oct. 11, 2020	Faculty Members
7	المؤتمر الدولي الرابع في تاريخ العلوم عند العرب والمسلمين	International Conference (VIRTUAL)	Research	April 4-6 2021	Faculty and researchers

Department of Applied Physics and Astronomy					
No	Event Name	Type*	Scope**	Date	Beneficiaries
1	Participation in the First Dubai Solar Energy Exhibition WETEX	Virtual Exhibition	National	26-28/ Oct. 2020	Public

2	UOS 11 th Open day Hamza (Coordinator)	Online Symposium	National	25 th -26 th May 2021	High School Students
3	Virtual orientation days Hamza (Coordinator)	Online Workshop	Local	1 st - 2 nd Sep. 2020	UOS Students
4	The Oscilloscope and AC Circuits	Workshop	National	1 st Feb. 2021	Teachers and lab supervisors
5	HEP Graduate Days Workshop, M'sila Algeria.	Workshop	International	April 2021	Faculty and Graduate Students
6	Online resources for "The Conservation of Linear Momentum"	Online Workshop	National	1 st Feb. 2021	School Teachers and lab supervisors
7					
8					

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

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

Research Seminars

Department of Chemistry				
No.	Speaker	Affiliation	Title	Date
1.	Dr. Ayssar Nahlé	UOS	"A Rapid Electrochemical Test for Porosity in Electroless Nickel Coatings on Carbon Steel Substrates"	April 18, 2021
2.	Dr. Abdelaziz Elgamouz	Department of Chemistry, University of Sharjah	Peroxidase-like activity of Algae, starch and B-cyclodextrin stabilized silver nanoparticles for visual and colorimetric detection of Hydrogen peroxide in Biological fluids	28 th February 2021
3.	Prof. Abdelnasser Kawde	Department of Chemistry, University of Sharjah	Controlling ONLINE Exams Invigilation of Multi-Section Courses	May 2 nd 2021
4.	Dr. Mahreen Arooj	Department of Chemistry, University of Sharjah	"Prediction of protein , ligand interactions using computational methods ".	March 21 st ,2021
5.	Dr. Mohamed El-Naggar	Department of Chemistry, University of Sharjah	Blackboard: a helpful tool for online teaching and assessment	10/8/2020

Department of Applied Biology				
No.	Speaker	Affiliation	Title	Date
1.	Ms. Nada Beesan Al-Assar	UoS, Co.Sci, DAB	Molecular mechanism of antitumor activities of Asplenium plants on MDA-MB-231 cells	September 14, 2021

2.	Mrs. Asma Anwar	UoS, Co.Sci, DAB	The antiangiogenic effects of 14K growth hormone derived peptides	November 14, 2021
3.	Ms. Aya Al Husseni	Dept. of Applied Biology/UOS	Molecular Genetics of Central Precocious Puberty	Nov. 28th, 2021
4.	Ms. Shaimaa Al Nablsi	Dept. of Applied Biology/UOS	Dependence of Antioxidant activity of Citrullus colocynthis upon time of fruit collection, fruit part and accession	Nov. 28th, 2021
5.	Ms. Baraah Tariq	UoS, Co.Sci, DAB	Anticancer and antiangiogenic effects of 14K fragment of growth hormone.	December 12, 2021
6.	Ms. Shahad Alnuaimi	Dept. of Applied Biology/UOS	Optimal Production Conditions of an Active-inhibitory Compound(s) Producing <i>Streptomyces</i> Strain CSK1 Against Gram Positive <i>Staphylococcus aureus</i>	Dec. 12th, 2021
7.	Ms. Asma Mohamed Hassan Ahmed Abdalla	UoS, Co.Sci, DAB	Evaluation of DNA extraction protocols and real-time PCR-based methods for efficient investigation of pig traces in food	Feb. 2, 2022
8.	Prof. Ali El-Keblawy, Dr. Kareem Mosa Dr. Sameh Soliman	UoS, Co.Sci, DAB, Co. Pharma.	UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology	April 11, 2022
9.	Mrs. Sakina Eqbal	UoS, Co.Sci, DAB	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	April 28, 2022
10.	Ms. Moza Al-Ali	UoS, Co.Sci, DAB	Transcriptomic Profiling of the Telomerase Transformed Mesenchymal Stromal Cells Derived Adipocytes in Response to Rosiglitazone	April 28, 2022

Department of Mathematics				
No.	Speaker	Affiliation	Title	Date
1	Mostafa Zahri	UoS	Ito-Taylor Methods for Numerical approximation of Stochastic Differential Equations.	13 /10/2020
2	Mostafa Zahri	Webinar University Mohammed 6, Morocco	Barycentric interpolation of interface-solution for solving SPDEs on non-overlapping sub-domains with additive multi-noises	27 /11/2020
3	Salim Messaoudi	UoS	General Decay Estimate for a Class of Weakly Dissipative Second-Order Systems with Memory.	27/10/2020
4	Salim Messaoudi	KFUPM Webinar	General Decay Estimate for a Class of Weakly Dissipative Second-Order Systems with Memory	16/10/2020
5	Zahid Raza	UoS	Expected values of some molecular descriptors in random phenylene chain	10-03-2021, USA
6	Zahid Raza	UoS	Expected values of some molecular descriptors in random molecular structures	02-02-2021 UAE
7	Belkacem Said- Houari	University El- Oued, Algeria	Recent Results on the Jordan-Moore-Gibson-Thomson equation	30-31March 2021
8	Belkacem Said- Houari	NYU Abu Dhabi	Wellposedness and decay rates for the Cauchy problem	10-14 Jan 2021

			of the Jordan-Moore-Gibson-Thompson equation	
9	Abdelaziz Soufyane	UoS	Some Recent Results for the One-Dimensional Suspension Bridges Model.	24 /11/2020
1	Firas Ghanim Ahmed	Mohammed Bin Rashid School of Government,	Artificial intelligence in the government sector dedicated to public administration November,	14th, 2020.
1	Firas Ghanim Ahmed	Northern Technical University College of Administrative Technology	Certain Class of Analytic and Univalent Function with Respect to Symmetric Point	March 16th, 2021.
1	Firas Ghanim Ahmed	College of Sciences/Universit y of Sharjah,	Problems and Solutions (teaching and exams) on the Blackboard System.	November, 26th, 2020.
1	Firas Ghanim Ahmed	Northern Technical University College of Administrative Technology, Department of Statistics and Informatics Techniques	Artificial intelligence: from the beginning till the present”	April 1st, 2021.
1	Aziz Takhirov	Department of Mathematics	Ensemble algorithm for parametrized flow problems with energy stable open boundary conditions	November, 10th, 2020.
1	Muhammad Islam Mustafa	UOS	Optimal decay rates for the viscoelastic wave equation	8/12/2020
1	Marwan Al- Momani	UOS	Penalty and Related Estimation Strategies in	February 16, 2021

			Simultaneous Autoregressive Model	
1	Ali Jaballah	UoS	Topologies, partitions, and intermediate rings	6/4/2021 UAE

Department of Applied Physics and Astronomy				
	Date	Speaker Name	Title of the seminar	Notes
1	Sunday 27-9-2020	Mashhoor Al-Wardat	Space telescopes' parallax measurements and their impact on the determination of stellar masses	UOS Department of Applied Physics and Astronomy
2	Sunday 4-10-2020	Ilias Fernini	SAASST Research at the IAC2020 CyberSpace	UOS Department of Applied Physics and Astronomy
3	Sunday 1-11-2020	Hichem Eleuch	Applications of ERS and Supersymmetry for analytical solutions of the Schrödinger equations.	UOS Department of Applied Physics and Astronomy
4	Sunday 8-11-2020	Muhammad Fachri	Volumetric faults in field-sized reservoir simulation models – Their impact on oil/gas field production strategy	UOS Department of Applied Physics and Astronomy
5	Sunday 15-11-2020	Daniil Moraitis	"TOPAZ: A Software Platform for Quantitative Analysis of XRD Data"	UOS Department of Applied Physics and Astronomy

6	Sunday 22-11-2020	Gehad Sadiek	Entanglement robustness and spin relaxation in thermal states of two-dimensional dissipative spin system in an inhomogeneous magnetic field	UOS Department of Applied Physics and Astronomy
7	Sunday 29-11-2020	Antonios Manousakis	Accretion at the vicinity of Black Holes using General Relativistic Hydrodynamic (GRHD) Simulations.	UOS Department of Applied Physics and Astronomy
8	Sunday 6-12-2020	Kais Daoudi	Development of highly sensitive Surface Enhanced Raman Spectroscopy sensors	UOS Department of Applied Physics and Astronomy
9	Sunday 28-02-2021	External Speaker Dr. Hamza Labiad	Magnetic & Laser Control of Molecules: Fundamental, Planetary & Interstellar Medium Applications	Department of Chemistry, College of Science, Swansea University, Swansea, SA2 8PP, UK
10	Monday 12-04-2021	Amine Ahriche	Particle Physics and Cosmology of the Invisible Sector	UOS Department of Applied Physics and Astronomy

4. Community Engagement

Community Service Summary

Community Service Category	DC	DAB	DM	DAPA	Total
Evaluator/Reviewer	20	14	0	25	76
Chair	3	0	2	4	7
Professional Membership	09	3	9	5	37
TPC	0	0	0	0	0
TV/Newspapers	1	12	3	5	13
Judge	22	9	9	2	14
Speaker	5	3	3	13	9
Editor	18	6	50	1	80
Organizer	04	10	0	6	30
Consultations	0	0	0	0	1
Professional Meeting	0	0	0	0	0
External Committees	0	0	9	2	21
Student Extra-Curricular Activities	12	16	4	18	52
Total	94	73	89	46	340

Department of Chemistry				
No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR or Referee (Total = 20)				
1.	Dr Abdelaziz Elgamouz, Rice Husk Ash: A Cheap but High-Quality Reinforcing	Journal paper	02/02/2021	Journal of Materials Science and

	Filler for Linear Low Density and High-Density Polyethylene,			Chemical Engineering (MSCE)
2.	Dr Abdelaziz Elgamouz, CHARACTERIZATION AND VALORIZATION OF CLAY WITHDRAWN FROM LONDELA –KAYES, REPUBLIC OF CONGO	Journal Paper	29/12/2020	Journal of Materials Science and Chemical Engineering (MSCE)
3.	Dr Abdelaziz Elgamouz, Synthesis of Graphene Oxide (GO) from Hydrogenated Diamond Like Carbon and Protein immobilization onto it: Characterization and study of Practical Utility	Journal Paper	10/10/2020	Journal of Materials Science and Chemical Engineering (MSCE)
4.	Dr. Ayssar Nahlé, as a member of editorial board of the “Oriental Journal of Chemistry”, I have provided the final recommendation for the article entitled "Highly Efficient Prodrugs: Design and Therapeutic Applications". (OJC-13539-20).	Journal Paper	January 3, 2021	Oriental Journal of Chemistry
5.	Dr. Ayssar Nahlé reviewed a paper for the " Journal of Molecular Liquids": "Insight into the anti-corrosion mechanism Veratrum root extract as a green corrosion inhibitor" by: Yangyang Feng; Jiahong He; Youli Zhan; Jibin An; Bochuan Tan	Journal	January 3, 2021	Journal of Molecular Liquid

	Manuscript Number: MOLLIQ-D-20-01312			
6.	Dr. Ayssar Nahlé, as a member of editorial board of the “Oriental Journal of Chemistry”, I have provided the final recommendation for the article entitled "Effect of Leaves and Acids types on The Electrical Absorbance of DSSC using Nanostructured Zinc Oxide". (OJC-13523-20).	Journal	January 9, 2021	Oriental Journal of Chemistry
7.	Dr. Ayssar Nahlé, as a member of editorial board of the “Oriental Journal of Chemistry”, I have provided the final recommendation for the article entitled “Vibrational Frequencies of Dichlorine Monoxide: A Mathematical Model”. (OJC-13526-20).	Journal	January 22, 2021	Oriental Journal of Chemistry
8.	Dr. Ayssar Nahlé reviewed a paper for the " Journal of Molecular Liquids", "N1,N1,N12,N12-Tetramethyl-N1, N12-dioctyldodecane-1,12-diaminium bromide: Its synthesis and application in inhibition of mild steel corrosion in 15% HCl " by: Nurudeen A. Odewunmi, Mohammad A. J. Mazumder,* Mohammed K. A`Idahdooh, Shaikh A. Ali Manuscript Number: MOLLIQ-D-20-01260	Journal	March 5, 2021	Journal of Molecular Liquid
9.	Dr. Ayssar Nahlé reviewed a paper for the "Oriental Journal of Chemistry", India:	Journal	March 27, 2021	Oriental Journal of Chemistry

	<p>“Synthesis of Salicylate and Salicylamide Alcohols for the Preparation of Phosphorodiamidates and Ifosfamide Prodrugs”</p> <p>Ashutosh Pal</p> <p>OJC-13580-21</p>			
10	<p>Dr. Ayssar Nahlé reviewed a paper for the " Journal of Molecular Liquids", Title: "Insight into the corrosion inhibition property of two new soluble and non-toxic xanthenbenzoate derivatives"</p> <p>by: N. Arrousse, R. Salim, F. Benhiba, E.H. Mabrouk, A. Abdelaoui, F. ElHajjaji, I. Warad, A. Zarrouk, M. Taleb</p> <p>Manuscript Number: MOLLIQ-D-21-01924</p>	Journal	April 4, 2021	Journal of Molecular Liquid
11	<p>Dr. Ayssar Nahlé, being registered for Editorial Manager (EM), the online submission and peer review tracking system for “Materials Chemistry and Physics”, I have provided the final recommendation for the following article:</p> <p>Title: “Detailed experimental and theoretical evaluations of the adsorption mechanism of novel -1,2,3-triazoly) uridine nucleosides against the corrosion of mild steel in HCl”.</p> <p>Maryam Chafiq, Abdelkarim Chaouiki*, Rachid Salghi, Hamza Tachallait,</p>	Journal	April 24, 2021	Materials Chemistry and Physics

	Khalid Bougrin, Ismat H. Ali, Mohamed Siaj Ms. Ref. No.: MATCHEMPHYS-D-21-00648R1			
12	Dr. Mahreen Arooj reviewed a paper for the " BBA - Proteins and Proteomics " Food Additives Benzoic Acid and its Methyl and Propyl para-hydroxy Derivatives are Amyloidogenic to Proteins " by: Halavath Ramesh, Noorul Huda, and Abani K. Bhuyan Manuscript Number: BBAPRO-21-19	Journal	January 15 th , 2021	BBA - Proteins and Proteomics
13	Dr. Mahreen Arooj reviewed a paper for the " Egyptian Journal of Medical Human Genetics " Automated Detection of Colon Cancer using Genomic Signal Processing " by: Safaa M. Naeem , Mai S. Mabrouk, Mohamed A. Eldosoky, Ahmed Y. Sayed Manuscript Number: JMHG-D-21-00051	Journal	May 17, 2021	Egyptian Journal of Medical Human Genetics
14	Mr. Ibrahim Abdel-Rahman, as a member of editorial board of the "Arabian Journal of Chemical Environmental Research (AJCER)"	Journal	September 15, 2020	Arabian Journal of Chemical Environmental Research (AJCER)

15	<p>Mr. Ibrahim Abdel-Rahman reviewed a paper for the " <i>Organic & Medicinal Chemistry International Journal, (OMCIJ)</i>. "Wastewater Treatment Plant of Loung Te Industrial Park The Study for Increasing the Number of Microbes in the Mixed Liquid Suspended Solids (MLSS)" on 24-03-2021. Manuscript ID: OMCIJ-RA-21-827. (<i>Organic & Medicinal Chemistry International Journal, (OMCIJ)</i>).</p>	Journal	March 24, 2021	<i>Organic & Medicinal Chemistry International Journal, (OMCIJ)</i>
16	<p>Mr. Ibrahim Abdel-Rahman reviewed a paper for the " <i>Annals of Chemical Science Research (ACSR)</i>. "Trends on the mechanical and the optical properties of papers affected by the inorganic additives determined by ash on ignition at 900 oC and a thermodynamic model applied for their tensile strength". 31-03-2021. Manuscript ID: ACSR-21-MRW-557. (<i>Annals of Chemical Science Research (ACSR)</i>).</p>	Journal	March 31, 2021	<i>Annals of Chemical Science Research (ACSR)</i> .
17	<p>Mr. Ibrahim Abdel-Rahman reviewed a paper for the " <i>Surfaces and Interfaces</i>". "A simplified model correlating the excess proprieties for Bi-X binary systems (X=Cu and Sb) serving the concept of reduced Redlich-Kister function at different temperatures" by Ahmed HUSSEIN, Ph.D.; Umar Badeggi; Sylvester Omoruyia; Charlene Africa; Enas Ismail; Subelia Botha on 31-3-2021. Manuscript Number: SURFIN-D-21-00284. (<i>Surfaces and Interfaces</i>).</p>	Journal	March 31, 2021	<i>Surfaces and Interfaces</i>

18	Mr. Ibrahim Abdel-Rahman reviewed a paper for the "Annals of Chemical Science Research (ACSR)". "Applications of Targeted Protein Degradation in Drug Discovery". 9-04-2021. Manuscript ID: ACSR-21-RW-558. (Annals of Chemical Science Research (ACSR).	Journal	April 9, 2021	Annals of Chemical Science Research (ACSR).
19	Dr. Kamrul Hasan reviewed Ammonium Anchored Palladium-NHC Complex on Polystyrene Resin: A Highly Reactive Catalyst for the Mizoroki-Heck Reaction , Manuscript ID slct.202100968	Journal	April 14, 2021	Chemistry Select
20	Dr. Kamrul Hasan reviewed a paper Synthesis and characterization of chitosan pyridyl imine palladium (CPIP) complex as green catalyst for organic transformations, manuscript ID CHPA-D-20-01722	Journal	21 st December, 2020	Chemical papers
CHAIR (Total = 3)				
21	Session Chair at the 5 th international Conference on the Arabs' and Muslims' Sciences	Dr. Abdelaziz	April 4-6 2021	International community
22	Organizing committee	Ihsan SHehadi	April 4-6, 2021	International ICHS21
	Chair of the VIP session	Ihsan Shehadi	April 4-6, 2021	International ICHS21

Membership (Total = 9)				
1.	FRSC (Fellow of the Royal Society of Chemistry, England, UK).	Ayssar	1986 -Present	International scientific community
2.	FRSC (Fellow of the Royal Society of Chemistry, England, UK).	Dr. Ayssar Nahlé	1986 -Present	International scientific community
3.	Education in Chemistry (the Royal Society of Chemistry, England, UK).	Dr. Abdelaziz Elgamouz	2017-Present	International scientific community
4.	Materials research society	Dr. Abdelaziz Elgamouz	2017-Present	International scientific community
5.	Chemistry in Education	Dr. Kamrul Hasan	2017-present	International scientific community
6.	Materials Research Society	Dr. Kamrul Hasan	2017-present	International scientific community
7.	Materials Research Bulletin	Dr. Kamrul Hasan	2019-Present	Enlisted reviewer
8.	Member of the Editorial	Ihsan Shehadi		of Journal of Applied chemistry.
9.	Member of the Editorial of the	Ihsan Shehadi	2018-present	Journal of Thermodynamics and Catalysis.

TPC (Total = 1)			
10			
11			
12			
TV/NEWSPAPERS (Total = 2)			
13	Interview with UOS-Media published on social media	Ihsan	March 29, 2021 UAE community
14			
15			
JUDGE (Total = 22)			
1.	The “Chemistry Senior Research Project Presentations, Jouman Abdulsalam Aswad (U14220077) Mariam Salem, (U14121212), Reem Mahmoudu, (U16200444) Computational, Mutagenesis Studies to Explore the Drug Resistance Mechanism for Non-small Cell Lung Cancer (NSCLC) Treatment	Dr Mahreen Arooj	May 4, 2021 Senior chemistry Students.
2.	The “Chemistry Senior Research Project Presentations, Yara Mousa Ibrahim (U17102078) Synthesis of new 1,2,4-triazole derivatives with potential antimicrobial activity	Dr Mohamed Elnaggar	May 4, 2021 Senior chemistry Students.
3.	The “Chemistry Senior Research Project Presentations, Arooba H. Malik (U17104229), Saba O. A. Naji Ali (U16105858) , Seyedeh B. S. Hashemi (U16105140) Synthesis and characterization of magnetic	Dr Kamrul Hasan	May 4, 2021 Senior chemistry Students.

	Fe ₃ O ₄ @BA@PANI composite as photo catalyst the degradation of for methyl orange (MO)			
4.	The “Chemistry Senior Research Project Presentations, Zaynab A. Lal Baksh Din M. Alameeri (U17103866), Nada K. Abdelrahman A. Alhammadi (U17102628), Sara M. Lotfi Alawadhi (U17102801) Synthesis and characterization of magnetic chitosan furan imine palladium (MCFIP) complex for reduction of 4-nitrophenol	Dr Kamrul Hasan	May 4, 2021	Senior chemistry Students.
5.	The “Chemistry Senior Research Project Presentations, Abdalla M. Abdalla Mohamed Alharmoodi (U17100524) Ahmed M. Ahmed Ali (U17102061) Identification of different types of polymers in plastics waste	Prof. Ideisan I. Abu-Abdoun	May 4, 2021	Senior chemistry Students.
6.	The “Chemistry Senior Research Project Presentations, Mohamad M. Ahmad Ali (U17103478) Mohammad R. Abdulla Rashed Lootah (U17200176) Validation of GC-MS techniques for the Analysis and Detection of Cocaine	Prof. Ideisan I. Abu-Abdoun	May 4, 2021	Senior chemistry Students.
7.	The “Chemistry Senior Research Project Presentations, Ahmed M. Abdulla Mohamed Ibrahim	Dr. Ayssar Nahlé	May 4, 2021	Senior chemistry Students.

	(U17105568) Salim S. Sultan Saif Alteneiji (U16103977) UAE Chloris Vergata Extract as a Corrosion Inhibitor for Mild Steel in HCl Solution			
8.	The “Chemistry Senior Research Project Presentations, Aya Malek Abdelrazeq (U16106794) Modified glassy carbon and graphite pencil electrodes based on graphene oxide modified magnetite for electrochemical quantitative detection of hemoglobin.	Dr Abdelaziz Elgamouz	May 4, 2021	Senior chemistry Students.
9.	The “Chemistry Senior Research Project Presentations, Maha Obaid Ebrahim Obaid Alnuaimi (U15104891) Method Development and Validation for detection of encapsulated Vitamin D in an Argan Nano-emulsion By HPLC, comparison with Vitamin D supplements	Dr Abdelaziz Elgamouz	May 4, 2021	Senior chemistry Students.
10	Rowdha A. Ibrahim Abdulla Alblooshi, U19103709, MSc. Comparative forensic discrimination of pink lipsticks using RAMAN, Infra-red and XRF spectroscopy.	Examiner 1: Prof. Ideisan Abou Abdoun Examiner 2: Prof. Abdelnasser Kawde	May 5, 2021	Chemistry Students. Staff and faculty
11	Shaima Mohammed Saleh Askar, U19103721, MSc. Development and validation of a LC-MS/MS method to determine tutin in honey originated from New Zealand and Australia	Examiner 1: Prof. Abdelnasser Kawde Examiner 2:	May 5, 2021	Chemistry Students. Staff and faculty

		Prof Raed Al-Qawasmeh		
12	Asma Mohammed Saleh Askar, u19103725, MSc. Characterization and Determination of GSR in selected 9mm ammunition using SEM	Examiner 1: Dr Ayssar Nahle Examiner 2: Dr. Kamrul Hasan	May 5, 2021	Chemistry Students. Staff and faculty
13	Noora Abdulkarim Alhaj Abdulkarim Ahli, U19103735, MSc. Soil examination as forensic trace evidence in crimes	Examiner 1: Dr Ihsan Shehadi Examiner 2: Dr Ayssar Nahle	May 5, 2021	Chemistry Students. Staff and faculty
14	Anood Abdulrahman Ismail Ahmad Alnasser, u19105964, MSc. The durability of developed fingerprints with aryldiazonium gold (III) salts on copper surfaces	Examiner 1: Prof. Monther Khanfar Examiner 2: Prof. Ayssar Nahle	May 5, 2021	Chemistry Students. Staff and faculty
15	Fatima Mohamed Khair Abla, u19103557, MSc. Au@SnO ₂ Core-Shell Nanoparticles via Redox Route for Mediated Removal of Environmental Pollutants.	Examiner 1: Prof. Sufian kanan Examiner 2: Prof. Monther Khanfar Examiner 3: Dr. Mahreen Arooj	May 16, 2021	Chemistry Students. Staff and faculty
16				
SPEAKER (Total = 5)				
1.	Public Lecture on the use of clay ceramic membranes to reduce the emission of gases in wastewater treatment plants of the Municipality to members of	Dr Abdelaziz	Jan. 21, 2021	Members of Sharjah Municipality.

	the Environmental department in Sharjah Municipality.			
2.	30 min talk on Zoom titled: Acrylamides removal from foods and beverages delivered to Inospin operated by Biowebspin SA, Headquarters : Rue des Remparts 10, CH-1950, Sion 2, Switzerland.	Dr. Abdelaziz Elgamouz	September 28, 2020	Company staff
3.	Presented at Workshop: COVID-19/SARS-CoV-2 Research” Computational Insights into Binding Mechanism of Drugs as Potential Inhibitors Against SARS-CoV-2 Targets”	Dr. Mahreen Arooj	15 th October ^t , 2020	Faculty, students from University of Sharjah
4.	Presented a seminar entitled: “Blackboard Collaborate with Ultra Experience” in the Workshop entitled: Best Practices in Teaching. The activity was initiated by introductory remarks from Dean Tabet. Then, Prof. Attaalmanan Gaffar, moderated the workshop and steered all discussions.	Mrs. Mona Kanj	26 th Nov. 2020	Department of Applied Physics and Astronomy in coordination with the Deanship of the College
5.	Presented a seminar entitled “Online Chemistry Lab Teaching - Challenges and solutions” in the College of Sciences Online Workshop Series on Best Teaching Practices.	Mrs. Azeera Abdul Rahim	1 st October 2020	Department of Applied Physics and Astronomy
EDITOR (Total = 18)				
1.	Editorial Board Member, "Journal of Chemistry and Applications", ISSN: 2380-5021, Avens Publishing Group , 47 Hemlock Dr., Northborough, MA 01532, USA.	Ayssar	On-going	International Scientific Community

2.	Member, Editorial Board of the ISRN (International Scholarly Research Network) “ Corrosion ” journal, Peer-reviewed, open access journal. ISRN is a division of Hindawi Publishing Corporation, a pioneering open access scholarly publisher with over 300 academic journals. (December 4, 2011- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
3.	Member, Editorial Board of the “ Journal of Chemistry and Applications ”, ISSN: 2380-5021, Avens Publishing Group , 47 Hemlock Dr., Northborough, MA 01532, USA. (February 1, 2014- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
4.	Honorable Member of International Advisory Board of the “ Oriental Journal of Chemistry ”. “Oriental Journal of Chemistry”, an ISI, Scopus, SNIP based Journal. (April 2018- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
5.	Member, Editorial Board of the “ International Journal of Recent Developments in Sciences ”. (June 2018- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
6.	Member, Advisory Board of the “ Journal of Applied Biology & Biotechnology ”. (May 27, 2018- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
7.	Member, Editorial Board in “ Region-Metals Journal ”. EnPress Publisher LLC., an international and independent publication house from	Dr. Ayssar Nahlé	On-going	International Scientific Community

	the United States. (November 7, 2018- Present).			
8.	Member, Editorial Board in “ Materials Science: Advanced Industrial Materials ” Journal. Whioce Publishing Pte. Ltd., Singapore. (December 4, 2018- Present). Member, Editorial Board in “ Insight-Corrosion Science & Protection ” Journal. (December 4, 2018- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
9.	Member, Editorial Board in “ Organic Chemistry Plus ” (OCP) Journal. (January 4, 2021- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
10	Reviewer, Scientific Research Publishing (Journal of Materials Science and Chemical Engineering)	Dr. Abdelaziz Elgamouz	On-going	International Scientific Community
11	Reviewer, the Journal of Nanoscience and Nanotechnology	Dr. Abdelaziz Elgamouz	On-going	International Scientific Community
12	Reviewer, European Journal of Chemistry	Dr. Abdelaziz Elgamouz	On-going	International Scientific Community
13	Reviewer, Journal of Advances in Chemistry	Dr. Abdelaziz Elgamouz	On-going	International Scientific Community
14	Editorial Board , International Journal of Chemistry and Research (IJCR), https://madridge.org/journal-chemistry-research/editors.php	Dr. Abdelaziz Elgamouz	On-going	International Scientific Community

15	Editorial Board Member , “ <i>Organic and Medicinal Chemistry International Journal (OMCIJ)</i> ”	Mr. Ibrahim Abdel-Rahman	On-going	International Scientific Community
16	Editorial Board Member , “ <i>European Journal of Chemistry, Environment and Engineering Sciences (EJCEES)</i> ”	Mr. Ibrahim Abdel-Rahman	On-going	International Scientific Community
17	“ <i>Annals of Chemical Science Research (ACSR)</i> ”. As an Honorable Associate Editorial Board member .	Mr. Ibrahim Abdel-Rahman	On-going	International Scientific Community
18	Editorial Board Member , “ <i>Arabian Journal of Chemical Environmental Research (AJCER)</i> ”	Mr. Ibrahim Abdel-Rahman	On-going	International Scientific Community
19				
ORGANIZER (Total = 4)				
1.	Being a member in the College of Sciences Social Committee: Organized for the Stress -Relief Workshop & -End of Graduation Ceremony	Mrs. Mona Kanj	10Nov. 2020 To be announced	College Of Sciences Academics, Staff and Students
2.	Organized “The Chemistry Senior Research Project Presentations” for the Spring 2020-2021 semester.	Dr. Ayssar Nahlé	May 4, 2021	Department of Chemistry, Chemistry major students

3.	Organized for the Open Days 20-21	Mrs. Mona Kanj	25 th and 26 th May 2021	High School Students
4.	Organized “The Chemistry Day with The Art and Craft of Natural Homemade Soap WORKSHOP”	Mrs. Mona Kanj	April 26, 2021	High school students, Language institute students, College of Sciences Academics, Staff and students,
5.	Organizing Committee ICSH21	Ihsan Shehadi	April 4-6, 2021	International conference
External Committees (Total = 0)				
6.				
7.				
8.				

Department of Applied Biology				
No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR or Referee (Total = 14)				
1.	Characterization of the Urokinase Plasminogen Activation (uPA) System in the Rat Collagen Induced Arthritis Model: Pharmacological Investigations of Methotrexate and uPA Inhibition	Evaluator of Ph.D. Thesis (Dr. Khalid Bajou)	08/10/2021	University of Wollongong School of Chemistry and Molecular Bioscience

				Illawarra Health and Medical Research Institute
2.	Reduction of <i>Xanthomonas axonopodis</i> pv <i>phaseoli</i> common blight of beans by induction of phenolic compounds in bean plants after salicylic and benzoic acids. <i>Journal of Plant Pathology</i>	Reviewer (Dr. Kareem Mosa)	8/12/2021	International Community
3.	Genetic engineering of plants for phytoremediation: advances and challenges . <i>Journal of Plant Biochemistry and Biotechnology</i>	Reviewer (Dr. Kareem Mosa)	27/1/2022	International community
4.	Controlling of <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> by induction of phenolic compounds in bean plants using salicylic and benzoic acids. <i>Journal of Plant Pathology</i>	Reviewer (Dr. Kareem Mosa)	1/2/2022	International community
5.	Reduction of <i>Xanthomonas axonopodis</i> pv <i>phaseoli</i> common blight of beans by induction of phenolic compounds in bean plants after salicylic and benzoic acids. <i>Journal of Plant Pathology</i>	Reviewer	6/2/22	International Community
6.	Smart pH responsive System Based on Hybrid Mesoporous Silica Nanoparticles For Delivery of Fungicide to Control Fusarium Crown and Root rot in Tomato. <i>Journal of Plant Pathology</i>	Reviewer	6/2/22	International Community
7.	Assessment of Promotion Application to Associate Professor Rank. Dept. of Applied & Molecular Biology. Palestine Technical University – Kadoorie	Evaluator	13/2/22	International Community
8.	PAI-1 in Digestive System Tumors. Good or Bad: Paradox of PAI-1 in Digestive System Tumors	Reviewer (Dr. Khalid Bajou)	21/02/22	International community
9.	Physiological and transcriptome indicators of salt tolerance in wild and	Reviewer (Dr. Kareem Mosa)	22/2/22	International community

	cultivated barley. <i>Frontiers in Plant Science</i>			
10.	Anti-angiogenetic and anti-lymphangiogenic effects of a novel 2-aminobenzimidazole derivative, MFB	Reviewer (Dr. Khalid Bajou)	24/02/22	International community
11.	Genome-wide analysis of DREB genes identifies a novel salt tolerance gene in wild soybean (<i>Glycine soja</i>). <i>Frontiers in Plant Science</i>	Reviewer (Dr. Kareem Mosa)	4/3/22	International community
12.	Mining beneficial genes for salt tolerance from a core collection of rice landraces at the seedling stage through genome-wide association mapping. <i>Frontiers in Plant Science</i>	Reviewer (Dr. Kareem Mosa)	7/3/2022	International community
13.	Discrimination of <i>Euglena gracilis</i> strains Z and <i>bacillaris</i> by MALDI-TOF MS"	Reviewer	26/4/22	International Community
14.	Genome mining of <i>Streptomyces qaidamensis</i> S10T, a new anti-MRSA metabolite producing strain	Journal paper reviewer Dr. Ban Al-Joubori	21/4/2022 2	Journal of applied Microbiology
CHAIR (Total = 0)				
Membership (Total = 3)				
1.	National Center for Biotechnology/Jordan (www.ncb.gov.jo),			National Community
2.	Jordan Society for Scientific Research (SFSR)			National Community
3.	Royal Society of Biology (Fellow) 2012-2014.			Int. Community
TV/NEWSPAPERS (Total = 12)				

	<p>حلقات برنامج نباتات في الشرقية قناة الشرقية من كلباء بمشاركة ا.د. علي القبلاوي و د. كريم موسى</p> <p>نبات الأشخر https://www.youtube.com/watch?v=LVtxqMZkJCI&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=8</p> <p>نبات الحنظل https://www.youtube.com/watch?v=K87OJw841x8&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=7</p> <p>شجرة السدر https://www.youtube.com/watch?v=5XOc1AePpyg&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=6</p> <p>نبات الحناء https://www.youtube.com/watch?v=UOnFAYKSrw&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=5</p> <p>نبات الشوع https://www.youtube.com/watch?v=pGl2hYyv4Sw&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=4</p> <p>شجرة الأراك https://www.youtube.com/watch?v=wT6fyeebuXc&list=PLwEFammkcVwgTitA-80cdjgmLEUah1KJB&index=3</p>	<p>TV show about local plants (Prof. Ali El-Keblawy and Dr. Kareem Mosa)</p>	<p>February - March, 2022</p>	<p>Local community</p>
JUDGE (Total = 9)				
<p>1.</p>	<p>Prof. Ismail Saadoun participated as a judge in Rashid Bin Humaid Award for Culture and Science-38”.</p>	<p>Award</p>	<p>September 21, 2021</p>	<p>National Community</p>
<p>2.</p>	<p>M.Sc. thesis: Molecular mechanism of antitumor activities of <i>Asplenium</i> plants on MDA-MB-231 cells (2021). By Nada Beesan Al-Assar (MSc. program in Biotechnology). University of Sharjah</p>	<p>M.Sc. thesis (Examiner: Dr. Kareem Mosa and Dr. Khalid Bajou)</p>	<p>September 29, 2021</p>	<p>Local community</p>

3.	PhD. thesis: Studies on rice responses and adaptive strategies to sodium toxicity (2021). By Tushar Khare. Ph.D. program in Environmental Science. Savitribai Phule Pune University, Pune, India	PhD. Thesis (Examiner: Dr. Kareem Mosa)	October 18 th , 2021	International community
4.	M.Sc. thesis: Improving Phytoremediation of oil polluted soil in the UAE using ACC deaminase-producing bacteria under arid conditions (2021). By Maitha Mubarak Khalid Mohamed Almansoori. Msc program in Environmental Science. Department of Biology, College of Science, United Arab Emirates University	M.Sc. thesis (Examiner: Dr. Kareem Mosa)	November 14 th , 2021	Local community
5.	Prof. Ismail Saadoun have participated as a judge in evaluating a promotion of Faculty member to a rank of Associate Professor in Dept. of Agricultural Biotechnology in Palestine Technical University-Khadoury/Palestine	Promotion	Feb. 13 th , 2022	Int. Community
6.	Prof. Ismail Saadoun participated as a judge in evaluating a promotion of Faculty member to a rank of Professor in Dept. of Biotechnology & genetic Engineering. Philadelphia University, Jordan	Promotion	Feb. 13 th , 2022	Int. Community
7.	I have participated as a reviewer of a scientific paper to be published in <i>J. Plant Pathology</i> . Reduction of <i>Xanthomonas axonopodis</i> pv <i>phaseoli</i> common blight of beans by induction of phenolic compounds in bean plants after salicylic and benzoic acids.	Publication		Int. Community
8.	I have participated as a reviewer of a scientific paper to be published in <i>J. Plant Pathology</i> . Smart pH responsive System Based on Hybrid Mesoporous Silica	Publication		Int. Community

	Nanoparticles For Delivery of Fungicide to Control Fusarium Crown and Root rot in Tomato. <i>Journal of Plant Pathology</i>			
9.	M.Sc. thesis: 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 (2022). By Mrs. Sakina Eqbal Hussain Tayabally (MSc. program in Biotechnology). University of Sharjah	M.Sc. thesis (Examiner: Dr. Khalid Bajou)	May 11 th , 2022	Local community
SPEAKER (Total = 3)				
1.	UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology	Seminar (Speakers: Prof. Ali El-Keblawy, Dr. Kareem Mosa, and Dr. Sameh Soliman)	April 11 th , 2022	Local community
2.	Course assessment methods”	Seminar (Speaker: Uzma Inayat	April 20 th , 2022	UOS
EDITOR (Total = 6)				
1.	Plant Science Today ISSN: 2348-1900	Editorial board member (Dr. Kareem Mosa)	2017-Present	International community
2.	Journal of Phytology ISSN: 2075-6240	Associate Editor (Dr. Kareem Mosa)	2019-Present	International community
3.	Current Nutraceuticals ISSN: 2665-9786	Associate Editor (Dr. Kareem Mosa)	2020-Present	International community
4.	BMC Plant Biology ISSN: 1471-2229	Editorial board member (Dr. Kareem Mosa)	2022-Present	International community
5.	Book Editor-Editorial member of the Book: Genitourinary cancer: Molecular diagnostic immunological implications: genetic aspect & viral therapy. Elsevier Academic Press 2022	Book Editor, Prof. Ihsan Mahasneh	2022	International Community

6.	Book Editor-Editorial member of the Book: Oncogenic virus: Fundamental and Applications: Volume 1: Fundamental of oncovirues. Volume 2: Medical applications of oncology knowledge. Elsevier academic press, 2022.	Book Editor, Prof. Ihsan Mahasneh	2022	International Community
ORGANIZER (Total = 10)				
1.	The international Conference on Education in Post COVID-19	Hybrid Conference: Member of the Organizing Committee: Racha Al-Khoury	March 14-16,2022	International, National and Local Community
2.	UAE Innovation Month in Sharjah 2022	On-Site event Member of Organizing Committee: Racha Al-Khoury	Feb. 14-17, 2022	National and Local Community
3.	12 th Biotechnology Students' Exhibition	Online exhibition Chair: dr. Ban Al-Joubori Member of Organizing Committee: Racha Al-Khoury, Islam Eltayeb, Uzma Inayat	November 25, 2022	Local Community, DAB and Co.Sci.
4.	K12- Science Program	Member of the organizing committee (Tasneem Obaid) to establish K12- Science Program to service the local community.	Academic Year 2021-2022	National and Local Community
5.	Tutor Program	Organizing this program by	Academic Year	UoS Community

		collaborating between the DAB Department and the Female Student Affairs (Tasneem Obaid)	2021-2022	
6.	12th UOS Open Day	Member of the organizing committee (Tasneem Obaid)	17, 18, 21 of May 2022	Local Community (High school students), DAB and Co.Sci.
7.	Biotechnology Students' Scientific Society Exhibition, EXPO 2020	Organized by students Affairs Member of organizing committee (Islam Eltayeb)	2nd March, 2022	Local, UoS and DAB students
8.	College of Sciences "Second Stress Relief Gathering" 2021	Organized by college social committee (member: Islam Eltayeb)	9 th Nov, 2021	Local, college of sciences, faculty, students, and staff
9.	DAB students defense Spring 21-22	Organized by the department of Applied Biology, member: Islam Eltayeb, Uzma Inayat	May 17, 2022	Local, DAB students, and Faculty
10.	Taskstream "Closing the loop" "Course assessment methods"	Organized by Distance Learning and assessment Methods Committee: Member Uzma Inayat		
External Committees (Total = 0)				

No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR (Total =8)				
1.	Member of the Scientific Committee for The 16th International Symposium on Geometric Function Theory and Applications (GFTA 2021), Romania.	International	Supposed on October, 2021	
2.	Consultation with Dubai government for formulating a survey.	Consultation with Dubai government for formulating a survey.	November 10, 2021	Researchers,
3.	Ministry of education: to give workshop about using statistical software that can help in teaching	Ministry of education: to give workshop about using statistical software that can help in teaching	Feb.21,2021	
CHAIR(Total = 20)				
4.				
5.				
6.				
7.				
8.				

Membership (Total = 11)				
9.	The 5th international workshop on Partial Differential Equations, KFUPM Webinar	Workshop	January 27, 28, 2021	Faculty/Students
10.				
11.				
12.				
TV/NEWSPAPERS (Total = 1)				
13.				
14.				
15.				
JUDGE (Total = 01)				
16.				
17.				
18.				
19.				
20.				
21.				
SPEAKER (Total = 8)				
22.	National Conference on applied mathematics and Mathematics Modeling (A3M' 2021), March 30, 31, 2021, University of El Oued, Algeria	Conference	March 30, 31, 2021	Faculty/Students

23.	52nd Southeastern International Conference on Combinatorics, Graph Theory, and Computing (SEICCGTC) Florida Atlantic University, FL. USA (Dr. Zahid Raza)	International Conference (VIRTUAL)	Research	March 8-12 2021
24.	Expected values of some molecular descriptors in random molecular structures (Dr. Zahid Raza)	Seminar-Webinar UoS	Research	Feb. 2, 2021
25.	A3M'2021 Conference in Applied Mathematics and Mathematical Modeling, Algeria.	Abdelaziz Soufyane: Stability of one-dimensional piezoelectric beams model with magnetic effects. Plenary Talk.	March 30-31, 2021	Researchers
26.	5th Workshop: Recent Developments in PDEs and Applications, KFUPM, KSA	.Abdelaziz Soufyane: Uniform stability of piezoelectric beams with magnetic effects. Plenary Talk.	January 27- 28, 2021	Researchers.
27.	2nd International congress on research in applied mathematics and computer science, Morocco.	Abdelaziz Soufyane: Some recent results for the one-dimensional suspension Bridges Model. Plenary Talk.	July 15-18, 2020	Researchers.

28.	2 nd International congress on research in applied mathematics and computer science, Morocco.	Abdelaziz Soufyane: Some recent results for the one-dimensional suspension Bridges Model. Plenary Talk.	July 15-18, 2020	Researchers.
29.	The first mathematics Gathering. (Mostafa Zahri)	Talk: Mathematical modeling of Islamic design	23Feb, 2021	Students
EDITOR (Total = 43)				
30.	International Scientific Journal	Dr. Firas	Since 2012	Editor
31.	Global Journal of Mathematical Analysis (GJMA)	Dr. Firas	Since 2014	Editor
32.	The Canadian Arena of Applied Scientific Research	Dr. Firas	Since 2014	Editor
33.	Asian Journal of Applied Science and Technology (AJAST)	Dr. Firas		Editor
34.	International Journal of Transformation in Applied Mathematics & Statistics (IJTAMS)	Dr. Firas		Editor
35.	International Release of Mathematics and Mathematical Sciences	Dr. Firas		Editor
36.	Journal of Mathematical Sciences	Prof. K Al-Dosary	Since 2014	Editor
37.	International Journal of Applied Physics and Mathematics (IJAPM) http://www.ijapm.org/	Prof. Soufyane	Since 2015	Editor
38.	Applied Numerical Mathematics (Elsevier Journal)	Prof. Basem	Since 2017	Editor

				(Numerical Specialists)
39.	Advances in Fuzzy Mathematics	Prof. Ali Jaballah	Since 2016	Editor
40.	Palestine Journal of Mathematics (PJM)	Prof. Salim Messaoudi		Editor
41.	Mathematical Methods in the Applied Sciences (MMAS)	Prof. Salim Messaoudi		Editor
42.	Boundary value Problems (BVP)	Prof. Salim		Editor
43.	International Journal of Differential Equations (IJDE)	Prof. Salim Messaoudi		Editor
44.	- Nonautonomous Stochastic Dynamical Systems” (NSDS)	Prof. Salim Messaoudi		Editor
45.	Arabian Journal of Math. (AJOM)	Prof. Salim Messaoudi		Editor
46.	Online Mathematics Journal	Dr. Firas	2019	Editor
47.	Online Mathematics Journal	Dr. Batainaha	2019	Editor
48.	International Journal of Applied Physics and Mathematics (IJAPM) http://www.ijapm.org/	Abdelaziz Soufyane	Since 2015	Editor
49.	Applied Numerical Mathematics (AT)	Journal	Applied Numerical Mathematics	Journal
ORGANIZER (Total = 15)				
50.	Third International congress on research in applied mathematics and computer science, Morocco.	Abdelaziz Soufyane: International scientific Committee member	26-27 March 2021	Researchers.

	Date	Speaker Name	Title of the seminar	Notes
1	Sunday 27-9-2020	Mashhoor Al-Wardat	Space telescopes' parallax measurements and their impact on the determination of stellar masses	UOS Department of Applied Physics and Astronomy
2	Sunday 4-10-2020	Ilias Fernini	SAASST Research at the IAC2020 CyberSpace	UOS Department of Applied Physics and Astronomy
3	Sunday 1-11-2020	Hichem Eleuch	Applications of ERS and Supersymmetry for analytical solutions of the Schrödinger equations.	UOS Department of Applied Physics and Astronomy
4	Sunday 8-11-2020	Muhammad Fachri	Volumetric faults in field-sized reservoir simulation models – Their impact on oil/gas field production strategy	UOS Department of Applied Physics and Astronomy
5	Sunday 15-11-2020	Daniil Moraitis	"TOPAZ: A Software Platform for Quantitative Analysis of XRD Data"	UOS Department of Applied Physics and Astronomy

6	Sunday 22-11-2020	Gehad Sadiek	Entanglement robustness and spin relaxation in thermal states of two-dimensional dissipative spin system in an inhomogeneous magnetic field	UOS Department of Applied Physics and Astronomy

7	Sunday 29-11-2020	Antonios Manousakis	Accretion at the vicinity of Black Holes using General Relativistic Hydrodynamic (GRHD) Simulations.	UOS Department of Applied Physics and Astronomy

8	Sunday 6-12-2020	Kais Daoudi	Development of highly sensitive Surface Enhanced Raman Spectroscopy sensors	UOS Department of Applied Physics and Astronomy
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9	Sunday 28-02-2021	External Speaker Dr. Hamza Labiad	Magnetic & Laser Control of Molecules: Fundamental, Planetary & Interstellar Medium Applications	Department of Chemistry, College of Science, Swansea University, Swansea, SA2 8PP, UK
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10	Monday 12-04-2021	Amine Ahriche	Particle Physics and Cosmology of the Invisible Sector	UOS Department of Applied Physics and Astronomy
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Department of Applied Physics and Astronomy				
No.	Event Name	Type*	Date	Beneficiaries
EVALUATOR or Referee (Total = 1)				
	Dr. Mounir Kaidi Regular referee of the following journals	<ul style="list-style-type: none"> – Material letters – International Journal of Biochemistry and Biotechnology – Journal of Nanostructure in Chemistry – Journal of semi-conductor science technology – Ceramics International Journal – Nano Journal – Materials Science in Semiconductor Processing 		

		<ul style="list-style-type: none"> - Super lattices and microstructures - Nanotechnology - Material research express - Applied surface science - Sensors and Actuators b - Journal of Materials sciences: Materials in electronics - Surfaces and interfaces 		
	<p>Dr. Hichem Eleuch</p> <p>Manuscript reviewed of the following journals</p>	<p>Physical review A</p> <ul style="list-style-type: none"> - Physical Review Applied - International Journal of Quantum Information - Entropy 		

		<ul style="list-style-type: none"> - Chaos Solitons & Fractals - Results in Physics - Axioms - Zentralblatt MATH - Nanomaterials - Crystals - Optical Review - Neural Computing and Application 		
	<p>Dr. Hafsa Khurshid</p> <p>Regular referee of the following journals</p>	<ul style="list-style-type: none"> • Materials letter • Nanotechnology • Applied surface science • Journal of Nanoparticles research • Applied Surface Sciences • Medical Physics • Journal of Applied Physics 		

		<ul style="list-style-type: none"> • Journal of Materials Chemistry • Journal of American Chemical Society 		
Participated/Presented in Events (Total =20)				
	Teaching in the Master Program <u>Dynamics of Territories and Societies</u> of Sorbonne University in Abu Dhabi	Taught Course	22-25/1/2020	Master program students
2	Participating in the ESTEDAD (National Ambassadors Program)	Taught Course	July-August 2021	High School students
3	Online lab teaching: challenges and solutions (Nawal)	Best online teaching practice delivered Lecture	5/9/2020	College of sciences
4	Online lab teaching (MIT) (Nawal)	MIT Remotely Designing for Learning workshop	9/10/2020	Worldwide

5	Readiness Inspection Visit By the Inspection Sector, Ministry of Education (Nawal)	College of sciences representative	15-16 November 2020	UoS
6	Challenges and solution for Online teaching	Delivered Lecture in a workshop	5/9/2020	College of Sciences
7	Collaborative workshop with ministry of Education	Delivered Lecture in two Workshops	Spring 20-21	Teachers and lab supervisor from ministry of education
8	Global talent mentoring program	Mentoring	2020-2021	Global talent mentoring
9	Reviewers	Journals and conferences	2020-2021	
10	Evaluation of exhibitions projects during DEWA Innovation Week	Science fairs	22-28/ Feb. 2021	Public and Students
11	Teaching Labs in presence of Corona Pandemic (Omar Adwan)	Delivered Lecture in Workshops	2020-2021	Teachers and Lab Supervisors, Ministry of Education
12	Physics National Committee (PNC) - Ministry of Education, (Omar Adwan)	Judgment	2020-2021	Ministry of Education
13	Workplace Health, safety and Wellbeing – Sustainability Circle (Omar Adwan)	Active Member	2020-2021	University of sharjah
14	Advising High School Students (Omar Adwan)	Workshop	2020-2021	High School students
15	The 4 th International Conference on the History of Arab and Muslim Sciences (ICH21) (Omar Adwan)	Coordinator and Member of the organizing committee	4-6 April 2021	International Conference

16	The 4 th International Conference on the History of Arab and Muslim Sciences (ICH21) Nouar Tabet,	Chaired one plenary session)	4-6 April 2021	International Conference
17	International Webinar on Science, Sustainable Development, and Ecosystems in Saudi Arabia (Nouar Tabet)	invited talk PV Technology: R&D Paths to Exit the Oil Age”	6-7 April 2021	International Conference
18	Arab Week	Invited talk Solar Technology from cell to Panel	18 August 2020	Arab Forum
	Arab Week	Science and Engineering at the Nanoscale	18 August 2020	Arab Forum
	International Workshop on Materials and Concepts for Solar, WMCPV'20	Invited Talk Photovoltaic Cells: Issues & challenges	25-26 Nov 2020	International Workshop
CHAIR a conference session (Total = 4)				
	Stress relief gathering	Social committee	10/11/2020	College of sciences
	Collaborative workshop with Ministry of education	Outreach Community	Spring 2021	Teachers, and Lab supervisors from Ministry
	Supervisor of Students' Scientific Society	Clubs & Societies	2013-2021	University of Sharjah

	Coordinator for 3 different committees at the university and college level	Committees	Sep. 2020 to Aug. 2021]	College of Sciences
Membership of a scientific society (Total = 5)				
	Fourth international conference on history of Arab and muslim sciences	International conference	(4-6)/4/2021	Worldwide
	History of Science among early Muslims 4 th Conference	International Conference	4-6/4/2021	International
	Arab Society of Digital Organizations.	Clubs & Societies	2007-	League of Arab States
	Arab Union for Astronomy and Space Sciences (Omar Adwan)	Member	2020-2021	Arab States
	Workplace Health, safety and Wellbeing – Sustainability Circle	Active Member	2020-2021	University of Sharjah
TPC (Total = 0)				

TV/NEWSPAPERS (Total = 5)				
	Newspaper Article	Newspaper articles	17 March 2021	Public and Students
	ICTP regional Center	Sharjah TV	30/01/2021	Public
	Development in education for future jobs	Alkhaleej Newspaper	20/4/2021 Issue 15311	Public
	Glimpses of Sharjah https://youtu.be/r3Uh9Udu-zU	Sharjah TV (English)	23/4/2021	Public
	Future of Education in the. Era of the Fourth Industrial revolution	Gulf News Newspaepr https://gulfnews.com/uae/education/future-of-education-in-the-era-of-the-fourth-industrial-revolution-1.1619699268349	29 April 2021	Public
JUDGE (Total = 2)				
	Ministry of Education	Comparative judgment	Sep. 2021	Teachers and Students
	Physics National Committee (PNC) - Ministry of Education, (Omar Adwan)	Judging the Questions	2020-2021	Ministry of Education
	EmSAT National Physics Committee (Saja Abdulhadi)	Comparative judgment	Sep. 2019-now	National and International Examination Department -

				Ministry of Education - UAE
	TLS (Teacher Licensure System) committee (Saja Abdulhadi)	Comparative judgment	Sep. 2019-now	National and International Examination Department - Ministry of Education - UAE
Public SPEAKER (not conference speaker) (Total = 13)				
	Rehearsals meeting & Orientation Lecture	Clubs & Societies	18 Nov. 2020	DAPA Students
	Seniors/Freshmen Get Together Event & Orientation Lecture	Clubs & Societies	19 Nov. 2020	DAPA Students
	AC Circuits & Oscilloscope	Workshop	1 st Feb. 2021	Teachers and Lab supervisors
	“The sun to power the future”,	Lecture	Event organized by the Physics Society, 4 March 2021	UOS
	Science Studies at UOS	Lecture	17 August 2020,	Public (high schools students)
	The Exit of the Oil Age“ ,	Lecture	December 2020	UOS, Public

			Research cafe series	
	Orientation Talk to Physics Students”	Lecture	19 November 2020	Physics Students sUOS.
	Science Frontiers in the 21 st Century” ,	Lecture		Students of Al Orouba School
	Introduction to Solar Technologies	Lecture	17 Jul 2020	AAF Summer school
	PV Technology	Lecture	25 July 2020	AAF Summer school
	Perovskite Solar Cells	Lecture	15 August 2021	AAF Summer University
	Editing Electronics for Experimental Physics Lab. Manual	Editing	During Fall, 20-21	UOS & APAD
	Editing Phys 1 Lab Manual	Editing	Spring 20- 21	APAD
External Committees (member of committee in another university, advisee board etc) (Total =0)				

	Member of the Scientific Advisory Board of the Semiconductor Technology Research Center for Energetics, Algeria			
	Member of the Advisory Board of the Renewable Energy and Energy Efficiency Commission (CEREFÉ), Algeria			

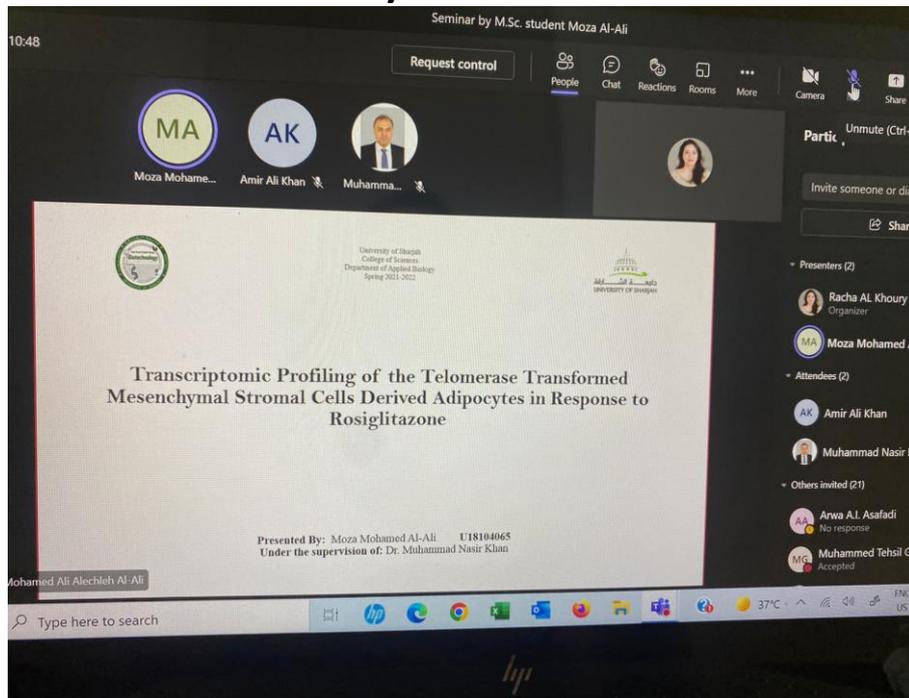
*Event Types: Newspaper articles, TV & Radio, Seminars & Workshops, Public Lectures ...etc.

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

Department of Chemistry at Glance

Department of Applied Biology at a glance

Seminar by DAB MSc student



Distance learning and assessment methods committee



UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology Seminar



كلية العلوم
COLLEGE OF SCIENCES



You are cordially invited to a Seminar Entitled

UAE Native Plants: Unique Applications in Chemistry, Pharmacology and Biotechnology

Speakers:

Prof. Ali El-Keblawy, Dr. Kareem Mosa and Dr. Ahmed AL-Mahdi
College of Sciences

Dr. Sameh Soliman
College of Pharmacy

Date: Monday April 11th, 2022
Time: 02:30 PM – 03:30 PM
Zoom Link: <https://bit.ly/34vIujH>

12th Biotechnology Students' Exhibition



usharjah

جامعة الشارقة

Under the Patronage of His Excellency
Prof. Hamid M.K. Al Naimiy,
The Chancellor of University of Sharjah

The Department of Applied Biology
College of Sciences
invites you to attend the

12th Biotechnology Students' Virtual Exhibition

Date: Thursday November 25th, 2021

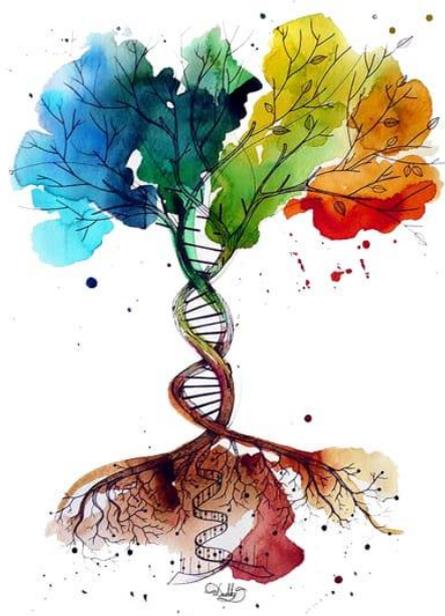
Time: 09:00 AM – 16:00 PM

Venue: Zoom

<https://sharjah-ac-ae.zoom.us/j/99800154234>

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Posters Session
Breakout Rooms
9:15 – 11:00



Presentations
Main Room
11:00 – 03:45

DAB Expo 2020 Visits





DAB Class of Spring 21-22



Graduates of B. Sc. **Biotechnology**, Class of Spring 2021-2022



DAB Participation in the innovation Wee



DAB TV Series



Orientation and Advising Day - لقاء تعريفى

24:51

Hshyar Abdullah

Abdelaziz Soufyane

Mohammad Saleh Bataineh

SM

Salim Messaoudi

Nouar Tabet

Basem Attili

Khalil Al Dosary

Minaa Farhan

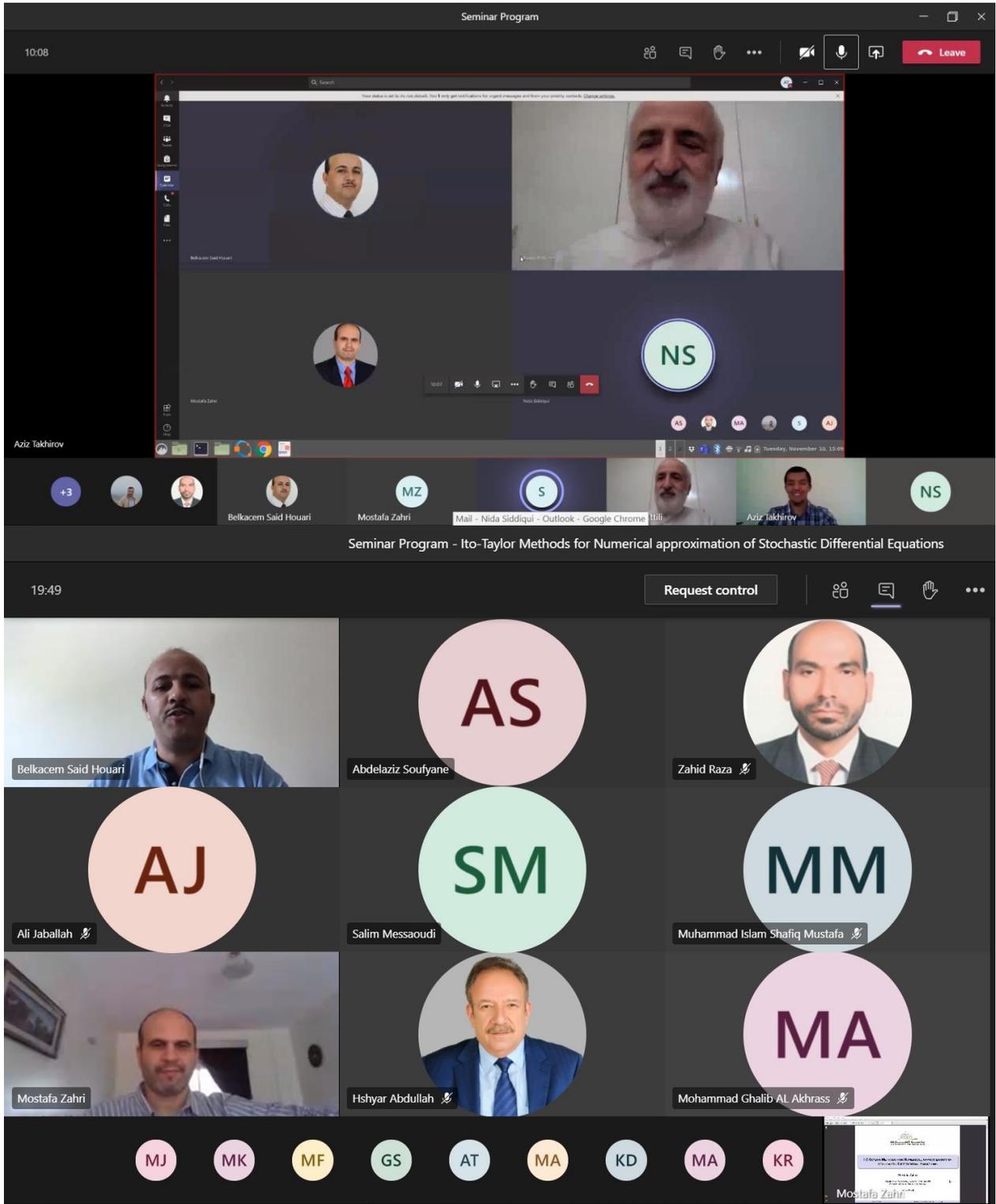
Zahid Raza

Participants

Type a name

- Mohammad Ghalib AL Akhrass
- Mohammad Saleh Bataineh
- Mostafa Zahri
- Muhammad Momin Aziz (Guest)
- Nouar Tabet
- Salim Messaoudi
- Sarah Ibrahim Siddique
- std-U20101570
- std-U20105052
- Zahid Raza

MZ SS MA MA GS MK S KR S





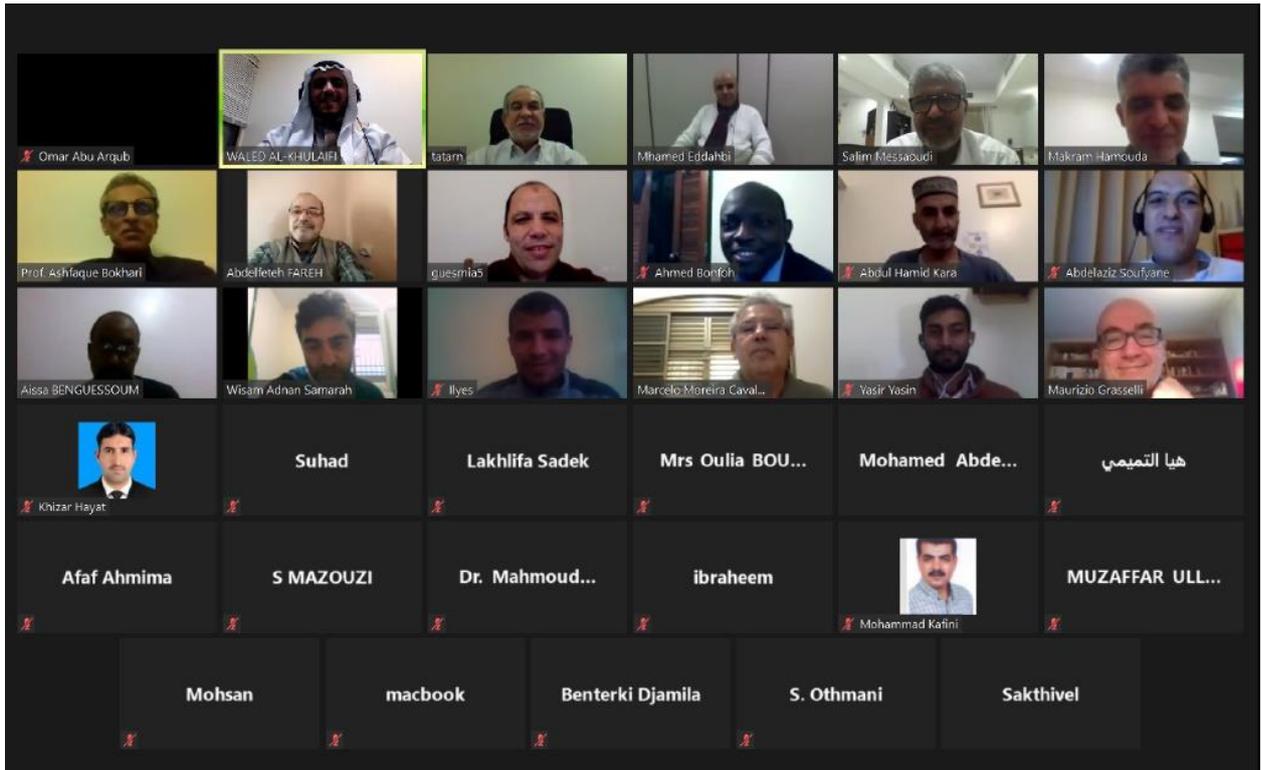
الإذاعة الثقافية · Follow

Mar 28 · 🌐



يستضيف الزميل خالد بن أحمد خلفاوي في عدد اليوم من برنامج حوار خارج الديار البروفيسور #سليم_مسعودي، أستاذ الرياضيات بجامعة الشارقة بدولة الإمارات المتحدة. الموعد سهرة اليوم في تمام 20.03 عبر الإذاعة الثقافية الجزائرية





Department of Applied Physics and Astronomy at a glance



Mon 8/31/2020 12:43 PM

Gaffar Attaelmanan

workshop on best teaching practices

To Hussein M Elmehdi; Bassam Rashed Khader; Hachemi Benaoum; Nawal Nayfeh

You replied to this message on 9/1/2020 12:06 AM.

Dear colleagues

I am planning a workshop on best teaching practices to be held next Saturday and I would like your assistance. Each one of you is requested to prepare a 30 minutes presentation on a topic related to the workshop theme. I suggest the following:

- 1- Dr Hussain- Online teaching: Student engagement and course delivery.
- 2- Dr Hachemi- Fool-proof exams: techniques and limitations.
- 3- Ms Nawal- Online lab teaching: challenges and solutions.
- 4- Mr Bassam- Course administration: available tools.

You are free to modify the title and content (slightly) but please adhere to the theme.

Your acceptance, comments and suggestions would be highly appreciated.

Regards

Atta



Gaffar Attaelmanan
Professor
Chair of the Department of Applied Physics and Astronomy
College of Sciences

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P.O.Box: 27272 Sharjah, UAE | W: www.sharjah.ac.ae





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Member Presentations: Innovations in "Remotely" Designing for Learning

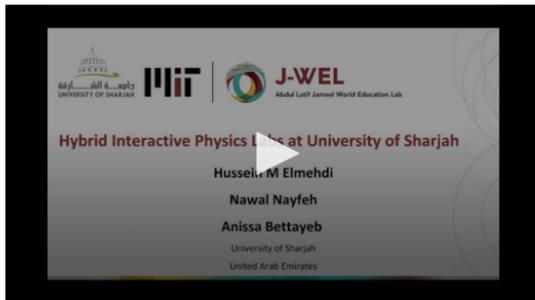
[J-WEL Connections - October 2020](#) > [Program](#) > Member Presentations: Innovations in "Remotely" Designing for Learning

Session Instructions:

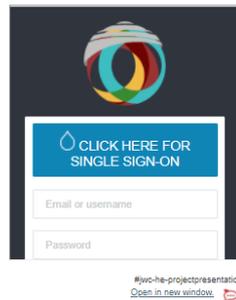
- ▶ Instruction 1. Prior to the scheduled session, watch the Prescreening Video.
- ▶ Instruction 2. During the session, we will engage in a question and answer session with the presenter.

Member Presentations Main	Developing Student Inclusive Participation	Teaching and Learning in Higher Education	Online Learning Assessment of Students	Hybrid Physics Labs	Introducing Active Learning	Implementation of Active and Inclusive Learning	Up Skilling 400+ Faculty
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Pre-session Video



Session Chat



Session Link



Event-Wide Chat





The Social Committee of
The College of Sciences
invites you to the

"Stress Relief Gathering" (Fall 2020/2021)

Date: Tuesday Nov10th, 2020
Time: 16:00 PM – 18:00 PM

Venue: Zoom Application
Link:
<https://zoom.us/j/91670847787>

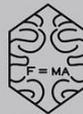
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The Definition of Time

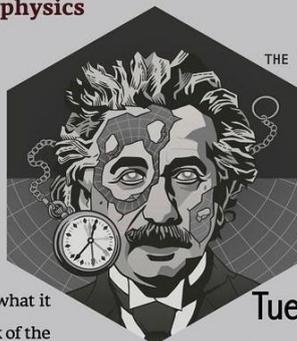
As Seen From The Primary Fields of physics



THE PHYSICS SOCIETY

Our Speakers:

1. **Mohammad Musharraf:** Club's vice-president
2. **Leen Binchi:** Club's president
3. **Firoz Chogle:** Club's executive personal
4. **Miss Asma Abdulsalam:** Speaking for the Sharjah Academy for Astronomy, Space Sciences, and Technology.



General Idea of the Event:

The human mind has long grappled with the elusive nature of time: what it is, how it regulates life, and if it exists as a fundamental building block of the universe. Our speakers will introduce and discuss the definition of time as seen from the perspective of Classical and Modern Physics.

Tuesday,
January 5th
6:00 – 6:50 pm, GST



DM us for more inquiry!

SENIOR/FRESHMAN GET TOGETHER



THE PHYSICS SOCIETY

About the event:

This event provides freshmans, sophomores, and juniors an opportunity to enlarge their network and connection with seniors. Moreover, seniors will assist and provide their knowledge to other students so they would be aware of the upcoming struggles/opportunities they will have.

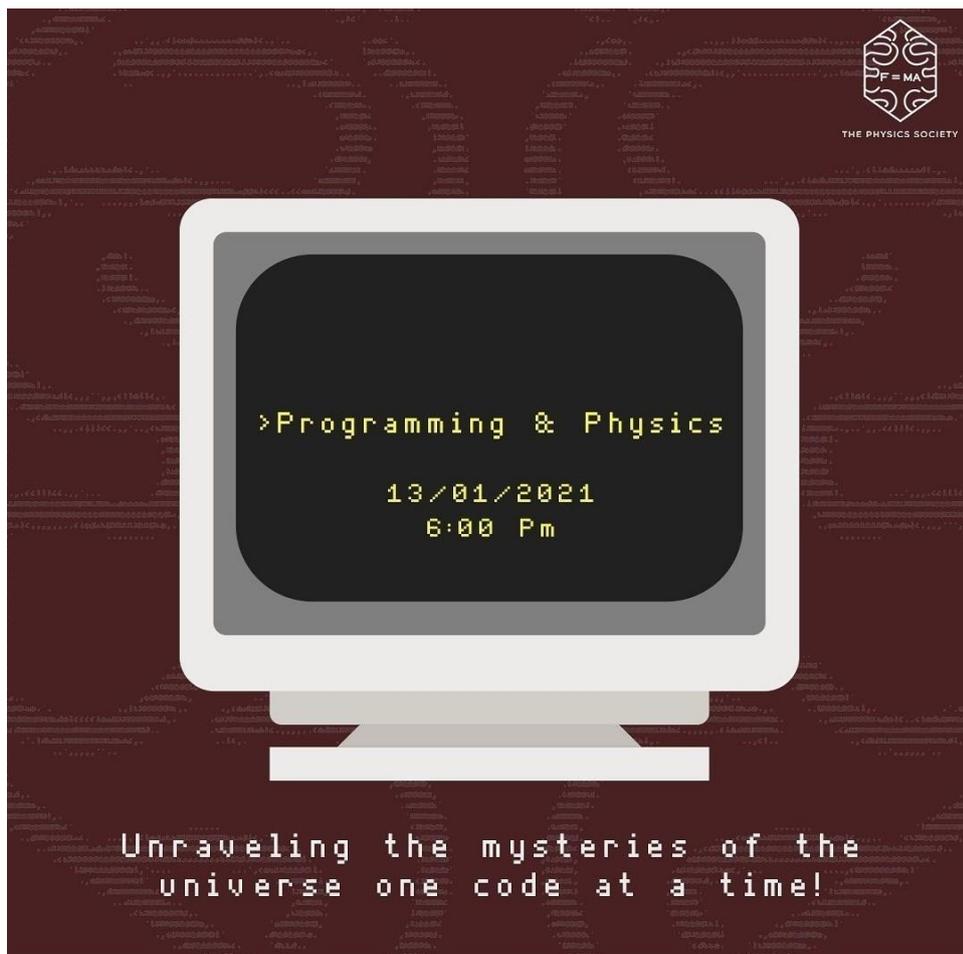
A chance to help and be helped!

THURSDAY, NOVEMBER 19

7:00 - 8:00 pm, GST



DM us for more inquiry!



PHYSICS AND THE PROMISE OF A GREENER FUTURE



THE PHYSICS SOCIETY

Our Speakers:

- Professor Nouar Tabet:** Dean of College of Sciences, Specialization: Material Science. **Topic:** "The Sun to Power The Future"
- Dr. Mounir Gaidi:** Department of Applied Physics and Astronomy, Associate Professor, Specialization: Material Science. **Topic:** "Bio Sensing and Air Quality Control using Nanotechnology".
- Ahmed Jamal:** Department of Applied Physics and Astronomy Senior. **Topic:** "Perovskites, The Next Generation of Solar Panels"

**Thursday,
March 4th
5:00 – 6:30 pm, GST**



General Idea of the Event:

The responsibility of ensuring a healthy and habitable future is one we all share. In this event we will be exploring only a few approaches that physics provides in restoring the health of, not only our environment, but also the health of the pupils that live in it in the short and long term.

✉ DM us for more inquiry!



THE PHYSICS SOCIETY

TRIVIA DAY

STARTING: 10/04/21 AT 4 PM
END: 11/04/21 AT 4 PM

uosphysicsociety 1h

True

Wasting less food is a way to reduce greenhouse gas emissions?

True 41% FALSE 59%

False, because more than third of food produced globally never makes it to the table causing the food loss and waste stream, but around 5-7% of the total human made greenhouse gas emissions.

how many types of sedimentary rocks?

2 40% 3 60%

3. Clastic, organic (biological) and chemical sedimentary rocks.

Basic unit of quantum information is called ?

QUBIT 32% CLASSIC BIT 68%

Qubit, it is the quantum version of the classical binary bit.

Send message

uosphysicsociety 58m

True

Helio-centric, which is the accepted model of the solar system.

The model of the solar system in which sun is at the center is called ?

HELIOCENTRIC 62% GEOCENTRIC 38%

False, all electromagnetic waves move at the same universal speed.

Gamma rays move faster than radio waves.

True 46% FALSE 54%

Send message



THEORETICAL VS EXPERIMENTAL PHYSICS

THEORETICAL VS EXPERIMENTAL PHYSICS

SCHEDULE

- 1ST SPEAKER (25 MIN): DR. RACHEW SOUALAH, TOPIC: "PARTICLE PHYSICS: FROM THE BUILDING BLOCKS OF THE UNIVERSE TO MYSTERIES"
- 2ND SPEAKER (25 MIN): DR. OLEG DLENOSKI, TOPIC: "THEORETICAL PHYSICS: PROS AND CONS, EXAMPLES, EMPLOYMENT, AND MORE."
- 3RD SPEAKER (25 MIN): MAITHA ALSHAMSI, TOPIC: "A PHYSICS JOURNEY"
- DISCUSSION SEGMENT (15 MIN)

11/04/2021
4:00 PM



Department of chemistry at a Glance
8th Chemistry Festival 2022



Chemistry Day 1



Chemistry Day 2





Chemistry Day 3



Chemistry Day 4



Chemistry Day 5



Expo 2020 Visit 1



Expo 2020 Visit2



Expo 2020 Visit3



UAE 50th National Day Celebration 1



UAE 50th National Day Celebration 2



UOS Open Day 2022