



UNIVERSITY OF SHARJAH

**COLLEGE OF
SCIENCES**

ANNUAL REPORT

2020-2021

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 2020/2021.

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

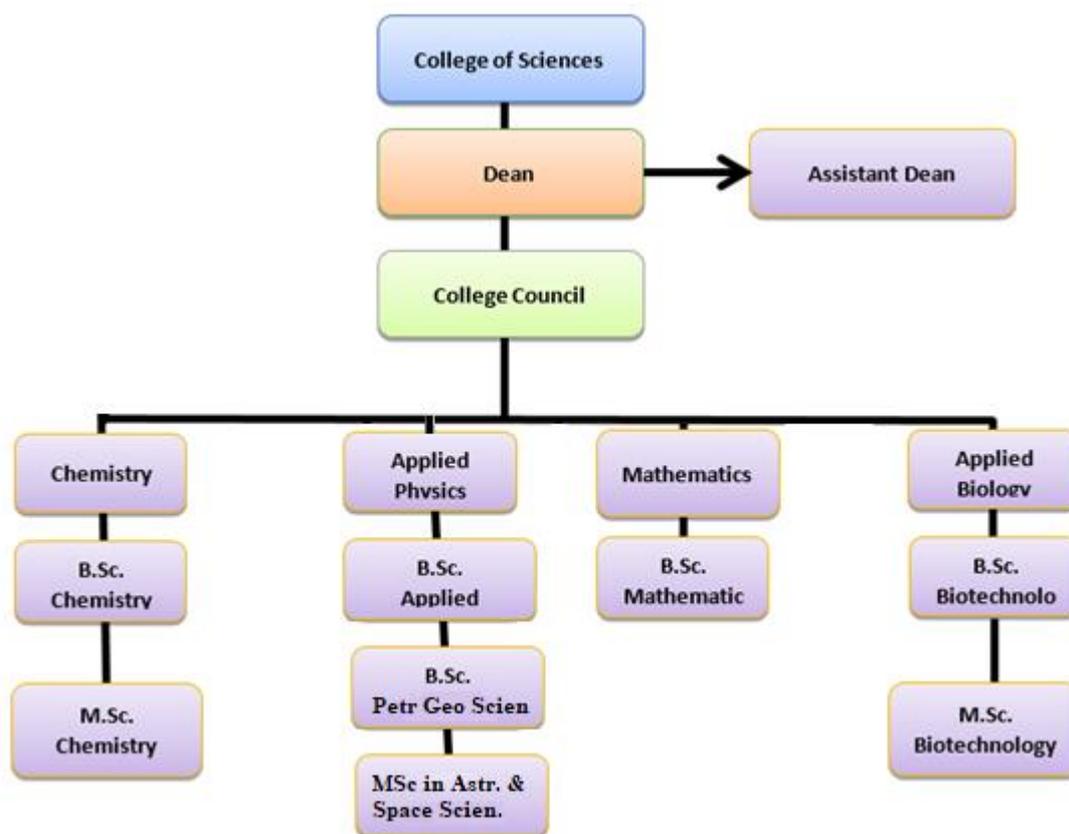
College Vision:

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
1.	Chancellor of the University of Sharjah <i>Prof. Hamid Al-Naimiy</i>
2.	Dean of Academic Support Services & related Committees <i>Dr. Hussein El Mehdi</i>
3. 3.	Class Schedule and Exam committee <i>Member: Dr. Mohamed Bataineh, Mahreen Arooj</i>

4. 4.	International relations and Rankings <i>Nida Siddiqui</i> <i>Prof. Abdelaziz Soufyane</i>
5. 5.	University Advisory Council <i>Salim Messaoudi, Member</i>
6.	Sustainable tracking and rating system (STARS) <i>Prof. Abdelaziz Soufyane</i>
7.	Committee in the University of Sharjah to initiate Master of Biomedical Engineering Member: <i>Dr. Amir Ali Khan (DAB)</i>
8.	UoS Online Cheating Committee Member: <i>Dr. Abdelaziz Tlili (DAB)</i>
9.	The 4 th International Conference on the History of Arab and Muslim Sciences Member: <i>Racha Al-Khoury (DAB)</i>
10.	The Laboratory Safety Committee Member: <i>Racha Al-Khoury (DAB)</i>
11.	Faculty Affairs <i>Dr. Mounir Kaidi</i>
12.	Student Council Elections (men and women for the academi cyear 2020/2021) <i>Moh'd Mansour</i>
13.	University Committee for International Relations and Ranking (UCIRR). <i>Rachik Soualah</i>
14.	MSc in Environmental Science & Engineering Program Management Committee

	Chair: <i>Prof. Salah Al-Toubat, Prof. Ali El-Keblawy, Dr. Mohamad Abdallah, Dr. Tareq Merbtene, Dr. Abdelaziz Elgamouz, Dr. Lucy Semerjian.</i>
15.	Master program in Biomaterial Engineering, University of Sharjah (UOS) Member: <i>Prof Ideisan AbuAbdoun</i>
16.	Chair, Faculty Members Housing Committee (<i>Dr. Ayssar Nahle department of Chemistry</i>)
17.	Member, Adhoc- Interactive Labs Committee (<i>Dr. Mahreen Arooj</i>)
18.	Women in Research Committee at UoS <i>Dr. Hafsa Khurshid (member)</i>

COLLEGE AND DEPARTMENT COMMITTEES

College Committees	
1.	<p>Strategic planning and Annual report committee</p> <p><i>Chair: Dr. Mostafa Zahri (DM)</i></p> <p><i>Members: Dr. Abdelaziz Elgamouz (DC), Dr. Ban Al-Joubori (DAB) , Dr. Hafsa Khurshid (DAPA),</i></p>
	<p>Strategic planning committee</p> <p><i>Members: Bassam Rashed, Gehad Sadiek</i></p>
2.	<p>Promotion Committee</p> <p><i>Prof. Abdelaziz Soufyane, Ihsan Shehadi (DC)</i></p>
3.	<p>Curriculum and Accreditation Committee</p> <p><i>Chair: Dr. Abdelaziz Tlili (Department of Applied Biology)</i></p> <p><i>Members: Prof. Raed Abdallah AL Qawasmeh (Department of Chemistry)</i></p>

Prof. Ali Jaballah (Department of Mathematics), Dr. Gehad Sadiék (Department of Applied Physics & Astronomy)

4. Exams and Time Tables Committee

Chair: Mr. Omar Adwan (Department of Applied Physics)

Members: Dr Muhammad Nasir Khan (DAB), Dr Mahreen Arooj (DC), Dr Muhammad Islam Shafiq Mustafa (DM), Mr. Omar Adwan (DAPA)

5. Advising college committee

Chair: Dr. Kareem Mosa (Department of Applied Biology)

Members: Dr. Mohamed EL Naggat (Department of Chemistry), Dr. Hyshyar Abdullah (Department of Mathematics), Dr. Kais Daoudi (Department of Applied Physics), Dr Mohamed Elnaggat (DC).

6. College Hiring Committee

Prof. Abdelaziz Soufyane, Dr. Ihsan Shehadi (DC)

7. Student Affairs Committee:

Prof. Basem Attili, member, Dr. Mohamed Bataineh

8. College Research Committee

College Research Committee

Chair: Dr. Rachik Soualah (DAPA)

Members: Dr. Kamrul Hasan (Department of Chemistry), Dr. Belkacem Said-Houari (Department of Mathematics), Dr. Hassen Hadj Kacem (DAB)

9. College Website Committee

Chair: Antonios Manousakis (DAPA)

Members: Mrs. Nida Siddiqui, member, Mrs. Uzma Inayat (DAB), Mrs Azeera AbdulRahim (DC)

10. College Social Committee

Chair: Mrs. Nawal Nayfeh

Mrs. Kholoud Mustafa, Dr. Mohamed Bataineh, Ms. Tasneem Obaid (DAB) , Nawal Nayfeh (DAPA), Mrs Mona Kanj

11. Final exams technical support committee

Distance Learning and Assessment Methods Committee

Chair: Dr. Firas Ghanim

Members: Dr. Abdelaziz Elgamouz (DC), Mr. Bassam Rashed (DAPA), Mrs. Racha Al-Khoury (DAB)

12. Postgraduate studies

Prof. Raed AlQwasmeh (DC), Dr. Gehad Sadiek

Faculty teaching load Committee

Chair: Gehad Sadiek

Members:

13. Laboratory Safety & Equipment Committee

Chair: Hussien Al-Awadhi (Physics)

Members: Mrs. Azeera Abdul Rahim (DC), Dr. Mona Hassuneh (DAB)

UOS 11th Annual Open Day Committee

Chair: Moh'd Mansour

Members: AbdulRaheem Khudada, Mona kanj, Kholoud Mustafa, Uzma Inayat

14.	<p style="text-align: center;"><i>Community Outreach committee</i></p> <p><i>Chair: Dr. Hamdan Hamdan</i></p> <p><i>Members: Dr. Abdullah Al Mutery (DAB), Mrs Mona Kanj</i></p>
15.	<p><i>Student Behavior Committee</i></p> <p><i>Dr. Bashir Suleiman (DAPA), Prof Ideissan Abu Abdoun (DC)</i></p>
<i>Special committees (Adhoc)</i>	
1.	<p>Adhoc-Distance Learning and Assessment Methods committee</p> <p><i>Dr. Firas Ghanim for the Mathematics department</i></p> <p><i>Dr. Abdelaziz Elgamouz or Prof. Abdelnasser Kawde for the Chemistry department</i></p> <p><i>Mr. Bassam Rashed or Mrs Nawal for the Applied Physics & Astronomy Department</i></p> <p><i>Ms. Racha Al-Khoury for the Applied Biology department</i></p>
2.	<p>Ad hoc: The advising session for al Ourouba school</p> <p><i>Chair:</i></p> <p><i>Members:</i></p> <p>Dr. Ban Al-Jouobori (DAB)</p>
3.	<p>Ad hoc: CoSci-MOE Proposal of Workshops on Online Delivery</p> <p><i>Chair: Prof. Nouar Tabet</i></p> <p><i>Members: Dr Abdelaziz Elgamouz (DC), Dr. Ban Al-Joubori (DAB)</i></p>
4.	<p>College Alumni Committee</p> <p><i>Chair: Yassir Ahmed Abdu (DAPA)</i></p> <p><i>Members: Dr. Ahmed M Almehdi (Department of Chemistry)</i></p> <p><i>Dr. Basem Attili (Department of Mathematics), Dr. Khalid Bajou (Department of Applied Biology)</i></p>

Departmental Committees

Department of Applied Biology	
1.	Annual Report and Website Committee <i>Chair: Dr. Ban Al-Joubori</i> <i>Members:</i> Mrs. Racha Al-Khoury, Ms. Tasneem Obaid, Mrs. Uzma Inayat, Mrs. Islam El-Tayeb
2.	Teaching Load and Exam Schedule Committee <i>Chair: Dr. Mohammed Nasir Khan</i> <i>Members:</i> Mrs. Uzma Inayat, Mrs. Islam ElTayeb, Mrs. Racha Al-Khoury
3.	Students and Social Affairs Committee <i>Committee Chair: Ms. Tasnim Obaid</i> <i>Members:</i> Dr. Ban Al-Joubori, Mrs. Racha Al-Khoury, Mrs. Uzma Inayat, Mrs. Islam ElTayeb
4.	Conferences and Seminars Committee <i>Chair: Dr. Hassen Hadj kacem</i> <i>Members:</i> Prof. Ali El-Keblawy, Prof. Ismail Saadoun, Dr. Amir Khan, Dr. Abdullah Al-Mutery, Mrs. Racha Al-Khoury
5.	Students Advising & Training <i>Chair: Dr. Kareem Mosa</i> <i>Members:</i> Prof. Ismail Saadoun, Dr. Khalid Bajou, Dr. Abdallah Al-Mutery
6.	Curriculum & Accreditation <i>Chair: Dr. Abdelaziz Tlili</i> <i>Members:</i> Prof. Ali El-Keblawy, Prof. Ismail Saadoun, Prof. Elsiddig Elsheikh, Dr. Mona Hassuneh, Dr. Hassan Hadjkacem, Dr. Amir Khan
7.	Laboratories, Safety and Physical Plan <i>Chair: Dr. Mona Hassuneh</i> <i>Members:</i> Dr. Hassan Hadjkacem, Dr. Muhammad Nasir Khan, Dr. Kareem Mosa, Dr. Khalid Bajou, Dr. Ban Al-Joubori, Mrs. Mona Ibrahim, Mrs. Mona Al-Ali, Ms. Aisha Echtibi, Ms. Mona Mahfoud, Ms. Maryam Ghaleb

8.	Post- Graduate Study <i>Chair: Prof. Ali El-Keblawy</i> <i>Members:</i> Prof. Elsiddig Elsheikh, Prof. Ihsan Mahasneh, Prof. Ismail Saadoun, Dr. Hassan Hadjkacem, Dr. Mona Hassuneh, Dr. Abdelaziz Tlili
9.	Recruitment <i>Chair: Prof. Ismail Saadoun</i> <i>Members:</i> Prof. Ali El-Keblawy , Prof. Ihsan Mahasneh , Prof. Elsiddig Elsheikh, Dr. Abdelaziz Tlili , Dr. Mona Hassuneh
10.	Budget <i>Chair: Prof. Ali EL-Keblawy</i> <i>Members:</i> Dr. Kareem Mosa , Dr. Khalid Bajou , Dr. Hassan Hadjkacem , Dr. Ban Al-Joubori
11.	Ad hoc: promotion committee(s) <i>Chair: Prof. Ismail Saadoun</i> <i>Members:</i> Dr. Hassen Hadj Kacem, Dr. Mona Hassuneh
12.	Ad hoc: Biotechnology Student Exhibition <i>Chair: Dr. Ban Al-Joubori</i> <i>Members:</i> Mrs. Racha Al-Khoury, Ms. Tasneem Obaid, Mrs. Uzma Inayat, Mrs. Islam El-Tayeb

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.	<p>Chemistry safety and Laboratory Equipment</p> <p><i>Chair: Dr. Mohammad El-Naggar</i></p> <p><i>Members: All Academic & Mr. Mohamad Al-Farouk Miss Reem Al-Teneiji</i></p>
3.	<p>Course Scheduling and Examination</p> <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> <p><i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman and Mrs. Azeera Abdul Rahim</i></p>
18.	<p>Gen. Chem. (HS) Lab coordination committee-Fall</p> <p><i>Chair: Dr. Kamrul Hasan</i></p> <p><i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman, Ms. Aisha Mohammed and Mrs. Azeera Abdul Rahim</i></p>
19.	<p>Gen. Chem. (HS) coordination committee-Fall</p> <p><i>Chair: Dr. Mahreen Arooj</i></p> <p><i>Members:</i></p>
20.	<p>Org. Chem. (HS) coordination committee-Fall</p> <p><i>Chair: Prof. Ideisan Abu-Abdoun</i></p> <p><i>Member: Mrs. Azeera Abdul Rahim</i></p>
21.	<p>Gen. Chem. (1) (MS) coordination committee-Fall</p> <p><i>Chair: Dr. Mohammad El-Naggar</i></p> <p><i>Members: Dr Ahmed Almehdi, Prof. Ideissan Abu Abdoun</i></p>
22.	<p>General Chemistry (1) coordination committee-Spring</p> <p><i>Chair: Dr. Ahmad Ali</i></p> <p><i>Member: Dr Kamrul Hasan, Prof. Monther Khanfar, Dr Ayssar Nahle</i></p>

23.	<p>General Chemistry (1) Lab coordination committee-Spring <i>Chair: Dr. Kamrul Hasan</i></p> <p><i>Member: Mrs Mona Kanj, Mr Ibrahim Abdelrahman, Ms. Aisha Mohammed and Mrs. Azeera Abdul Rahim</i></p>
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</p>

	<p><i>Chair: Dr. Abdelaziz Elgamouz</i></p> <p><i>Members: Mrs. Mona Kanj, Mr Ibrahim Abdelrahman and Mrs. Azeera Abdul Rahim</i></p>
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Department of Mathematis	
1.	<p>Student Affairs and tutorial Committee</p> <ul style="list-style-type: none"> • Dr. Mohammed Al-Akhrass • Prof. Basem Attili
2.	<p>Curriculum Committee</p> <ul style="list-style-type: none"> • Prof. Ali Jaballah • Dr. Hishyar Abdullah • Dr. Mohammed Al Akhrass • Kholoud Mustafa • Mrs. Nida Siddiqui
3.	<p>Examinations Committee</p> <ul style="list-style-type: none"> • Dr. Muhammad Islam • Mrs. Nida Siddiqui
4.	<p>Teaching Schedule Committee</p> <ul style="list-style-type: none"> • Dr. Mohammad Bataineh • Mrs. Kholoud Mustafa • Dr. Mohammed Al-Akhrass
5.	<p>Community Service and Social Committee</p> <ul style="list-style-type: none"> • Mrs. Kholoud Mustafa • Dr. Mohammad Bataineh • Dr. Zahid Raza
6.	<p>Scientific Research and Seminar Committee</p> <ul style="list-style-type: none"> • Dr. Belkacem Said-Houari • Prof. Salim Messaoudi • Dr. Muhammad Islam

	<ul style="list-style-type: none"> • Dr. Firas Ghanim • Dr. Zahid Raza
7.	<p>Employment Committee</p> <ul style="list-style-type: none"> • Prof. Basem Attili • Prof. Salim Messaoudi • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane • Dr. Mohammad Bataineh • Dr. Belkacem Said-Houari • Dr. Zahid Raza
8.	<p>Accreditation and Academic Plans</p> <ul style="list-style-type: none"> • All members of the department
9.	<p>Placement Test Committee</p> <ul style="list-style-type: none"> • Dr. Mahmoud BenKhalefa • Prof. Ali Jaballah • Prof. Abdelaziz Soufyane
10.	<p>Student Advising Committee</p> <ul style="list-style-type: none"> • Dr. Hishyar Abdullah • Dr. Mahmoud Benkhalefa • Dr. Mohammad Bataineh
11.	<p>Annual report Committee</p> <ul style="list-style-type: none"> • Dr. Firas Ghanim • Dr. Muhammad Islam
12.	<p>Conference and workshop Committee</p> <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.	<p>Program Assessment Report Committee</p>

	<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	3	14	12	46	2.7
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
○	○		Student's recruitment activities for B.Sc. and M.Sc. programs require strengthening.
○	○	○	Heavy teaching load.
○	○		Faculty salaries and benefits - compared to other computer-related departments within UOS - are not competitive enough to attract and retain high caliber faculty.
	○		Shortage of physical space for research laboratories.
○			Low enrollment in both undergraduate and graduate programs.
○			Insufficient technical support.
	○		Lack of research assistants.
○	○	○	Constraints in decision-making.
○			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-	Biology and Society	5	Translation of a University elective course to be taught in Arabic.
5-	Introduction to Sustainability New Course	3	New University elective course, initiated by the Sustainability Office
6-	Biotechnology in Medicine (1450455)	4	Added more details to monoclonal antibodies in chapter-1 and added new material regarding Corona Vaccines in Chapter 4
7-	Hematology-1 (0501370)	4	Added Video animations to all chapters

8-	TC & Animal Biotechnology (1450-361)		Made changes and added more details to the different theory lectures and added new material regarding 3D culturing and Stem Cells
	<u>M.sc courses</u>		
1-	Biotechnology and genetic Engineering	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.
2-	Advanced Microbiology	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.
3-	Biotechnology Master Degree Program	1	Program Goals were modified according to the new 2019 CAA standards.
4-	Advanced Environmental Research Methodology (1450521)	3	<p>New course taught for the first time this academic year 2020/2021 in the MSc program in Environmental Science and Engineering.</p> <p>This course is designed as an in-depth exploration of how to collect and analyze scientific data to help postgraduate students arrive at a workable thesis plan and to acquire a comprehensive knowledge of the resources available to them to pursue it. It covers the thesis as a type of writing, project planning, time management, information</p>

			retrieval, and professional skills required to successfully carry out scientific research.
5-	Research Methodology (1450501)	4	The course content was updated to cover the topic of legal and ethical issues in conducting research.
6-	Advanced Molecular developmental Biology (1450545)	5	The coursework was updated where the students are asked to review one relevant topic to the course using recent literature search.
7-	Advanced Environmental Sciences	3	This is a new course offered for the first time in fall 2020/2021 for the MSc program in Environmental Science and Engineering.
8-	Sustainable Natural Resources Management	3	This is a new course offered for the first time in spring 2020/2021 for the MSc program in Environmental Science and Engineering.
9-	Advanced Virology (1450534)	3	Added update about Corona Virus in all chapters
	<u>PhD courses</u>		
1-	PhD program in Biotechnology	1	Business Plan was prepared according to CAA 2019 standards.

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-			
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*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

	<p>graduation projects. Students came physically in the lab for completing their research projects.</p>
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 students get benefit from the unique advantages of both physical and online learning.

- 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> <p>I used also the virtual video links like: JOVE educational videos, McGrew-Hell link, YouTube and my videos that I have done in the Labs.</p>
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</p>

	physical chemistry courses. All such simulations were implemented by students through getting the proper in-class teaching.
11-	(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.

Department of Applied Biology	
1-	Blended learning was 100% applied in all labs through online lectures, recording videos, on-site labs and 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-	In the General Biochemistry Lab, Breakout rooms, an option available on Blackboard collaborate ultra, were applied to divide the students into groups during the online sessions and perform the virtual simulation experiments together and therefore simulating as much as possible the lab environment and encourage group work.
6-	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.
7-	Exams invigilation was performed using 2 cameras during the spring semester 2020-2021 using Lockdown browser and Zoom app.
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-	The videos were accessed from the publisher site of the adopted book for Cell Biology. The students liked the videos, and it improved their comprehension of the topics.
12-	In Basic Biotechnology 1450201, Molecular Genetics 1450341, General Microbiology and Immunology and serology courses, 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.
13-	In the Plant Biotechnology 1450421 and Pharmaceutical Biotechnology 1450437 courses, 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.
14-	In many course and laboratories, students were monitored during the lab sessions with poll questions and MS Forms quizzes.
15-	In many labs, YouTube videos were used to support the explanation of some experiments.
16-	In Molecular Biology 1450451, videos selected from different academic sources covering the different mechanisms of molecular Biology (genome packaging, replication, recombination, transcription, splicing, translation) are shared with students and discussed in class. it was an opportunity to review the different topics of the course. In addition, several molecular biology problems are solved in class with group work.
17-	In the MSc. courses "Research Methodology, 1450501" and "Advanced Environmental Research Methodology, 1450521", students were given different home assignments to practice what they have learned on the lectures. 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 courses.
18-	In MSc course "Advanced Molecular Developmental Biology" each student was given a recent topic in the subject area to prepare a presentation and the rest of the class was asked to evaluate the presenter using a pre-set criterion. After the presentation all students were encouraged to discuss the topic in detail to enhance their critical thinking capacity.

	Further the students are also given one topic to write an assignment based on the current literature review.
19-	In MSc course “Advanced Human Molecular Genetics” each student was given a recent topic in the subject area to prepare a presentation and the rest of the class was asked to evaluate the presenter using a pre-set criterion. After the presentation all students were encouraged to discuss the topic in detail to enhance their critical thinking capacity.
20-	In M.Sc. Course Advanced Cell Biology 1450512, instead of Quizzes, the students were given mini review. The students investigated the topic and worked harder.
21-	In M.Sc. course Advanced Biochemistry and Molecular Biology 1450551, more questions and exercises were asked to the students to involve them in the process of learning.
22-	Supervising students’ library projects in General Microbiology (1450331) and in Introduction to Forensic Sciences (1450311) courses on Fall and Spring 2020/2021, respectively. Under my supervision, groups of 5 students prepared a poster then presented their projects during the 11 TH Biotechnology Students’ Exhibition (Nov. 24 th , 2020) and on Feb. 23 th , 25 th , March 25 th , and April 29 th , 2021.
23-	Virtual visits to Sharjah Forensic Lab (https://youtu.be/FW-aWzTKCS8), General Forensic Administration/Dubai (https://youtu.be/FSX23udSStI), and Denver/USA Forensic Lab (https://youtu.be/6urbx8-7qIM) on March 18 th , 2021.
24-	Watch Post 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.
25-	Organize five forensic expert lectures delivered to Forensic Science students during Spring 2020/2021. These lectures were pre-arranged and were delivered online on Feb. 9 th , Feb. 11 th , March 11 th , April 15 th , and April 27 th , 2021.
26-	In a graduate level courses (Genetic Engineering 1450-502) and (Advanced Microbiology 1450-531), on an assigned topic, students on a term paper with a topic related to the course and shared the literature and results with the class, evaluated the data, turned in a formal critique for grading.

27-	In Environmental biotechnology 1540436, students were divided into groups. Each group was assigned a topic with a case study in which they prepared a report and PPT. The students presented their work in front of jury members.
28-	Assessing the Ability of Sparteine Sulfate and Harpagoside to Induce Regulatory T-Cells Gene Profile in the in vitro Grown Murine Mononuclear Cells. Undergraduate Research project in the course Spring 2021 (1450493)
29-	As part of Immunology and Serology course (1450333) course, student presented 7 different poster topics in the annual Biotechnology Exhibition (2020-2021) via Zoom. The topics were "Tumors-directed Cord blood NK-cell for Chronic lymphocytic leukemia therapy; Lymphocyte immunization therapy for recurrent miscarriages; Enhancing mucosal immunity by transient microbiota depletion; The process of vaccine development -(COVID-19 vaccines); Topic monoclonal antibodies drugs for cancer treatment; Immunological Approaches to Cure HIV"; Engineering Universal Tissue to Evade Transplant Rejection; targeting NK cells for anticancer immunotherapy".
30-	Many of the laboratory courses were modified to accommodate the hybrid teaching system supported by experimental videos and simulations

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-PRAuytSs-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	4	-	3	7
	# Trainee Students (National in UAE)	20	-	7	27
	# Trainee Students (Training abroad)	-	-	-	-
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	6		6	6
2	Sharjah Police Forensic	5		5	5
3	University Hospital Sharjah	1		1	1
4	International Center for Biosaline Agriculture	1		1	1
5	Department of Applied Biology UOS	4	1	3	4

6	Research Institute of Medical and Health Sciences	3		3	3
7	Research Institute of Sciences and Engineering	6		6	6

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	

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 statards templates
7.	ABET- Bachelor of Science in Biotechnology	Bachelor	Accreditation	1-7-2022	30-9-2023	Request to initiate re-accredittaion to ABET on 31 January 2022
8.	Master of Science in Biotechnology	Masters	Initial accreditation	11-4-2016	After graduating of 2 batches	
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	Master	Fully accredited	20XX		MOE accreditation

	Information Systems and Remote Sensing				
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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				Total
	2020/2021				
	Chemistry	Applied Biology	Math	Applied Physics	
Total Number of Students	85	393	47	54	
Total Number of G Students	11	45	5	0	
Students' Satisfaction (Instructors)	4.11	4.43	4.25		
Students' Satisfaction (Courses)	4.03	4.35	4.22		
CGPA Analysis (Fall)	2.8	2.61	2.53		
CGPA Analysis (Spring)	2.63	2.67	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 a suitable way for the students to improve their problem solving skills, since problem solving has a vital role in 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 Almehdi	Associate	Chemistry	Biochemistry	Joined Sep. 1, 2012
101175	Ahmed Ali Mohamed	Associate	Chemistry	inorganic	Joined Sep. 1, 2014
10978	Mohammed El Naggat	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	Assistant 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	Gen der	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 Sadiak	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

Department of Applied Biology			
ID	Name	Department	Job Title
201750	Mona Ibrahim	Applied Biology	Lab. Supervisor
20763	Aisha Echtibi		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
70051	Shaimaa Ghassan Alnablsi		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 Almehdi	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 Sadoun	Professor	Full time	10.2	10.2	3	3
Elsiddig A.E. Elsheikh	Professor	Full Time	10	10	10	10
Ali El-Keblawy	Professor	Full time	12.6	12.6	13.95	13.95
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	12.33	9.66	12.33	9.66
Amir Ali Khan	Assistant Prof.	Full Time	11	11	13.6	13
Kareem Mosa	Assistant Prof.	Full Time	13.4	13.4	11.8	11.8
Muhammad Nasir Khan	Assistant Prof.	Full time	9	9	14.6	14.6
Abdullah Al Mutery	Assistant Prof.	Full time	12	10.5	12	13.5
Ban Al-Joubori	Lecturer	Full time	24	10.5	15	9
Racha Al-Khoury	Lecturer	Full Time	24	10.5	21	7.5
Uzma Inayat	Lecture	Full time	27	9	27	9
Tasneem Obaid	Lecturer	Full Time	24	9	21	9
Islam Eltayeb	Lecturer	Full time	24	10.5	21	7.5

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 Rezq	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-yime	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

1 5	Moh,d Mansour	Lecturer	Full-Time	24	12	24	12
1 6	Bashir Suleiman	Professor	Full-time	24	12	9	9
1 7	Kais Daoudi	Associate Professor	Full time	9	9	12	12
1 8	AbdulRaheem Khudada Mohammed	Lecturer	Full-Time	24	12	24	12
1 9	Antonios Manousakis	Assistant Professor	Full Time	12	6	12	12
2 0	Ilias Fernini	Professor	Full Time	9	9	9	9
2 1	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					

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*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	4	4	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 departmet	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 remarks from Dean Tabet. Then, Prof. Attaalmanan Gaffar, moderated the workshop and steered all discussions.	Workshop entitled: Best Practices in Teaching	26 th Nov. 2020
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 Meeting	Teaching Learning &	Discussing strategy to teach practical courses online or hybrid. Attended by: Prof. Ismail Saadoun, Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam Eltayeb, Uzma Inayat. June 30, 2020
2.	Webinar	Teaching Learning &	"Blended Learning", organized by British University in Dubai. Attended by Dr. Muhammed Nasir Khan & Dr. Ban Al-Joubori. July 1, 2020.
3.	Webinar	Teaching Learning &	Talk on "Rapid Diagnostics for COVID-19" by Prof Jackie Ying: August 19 th , 2020 https://www.arabscienceweek.com/talks/rapid-diagnostics-for-covid-19/?ah=5Nh9ewcO
4.	Online Forum	Worksops and Seminars	The First Academic Forum "لقاء الغريبة". Attended by Islam Altayeb. Aug 25, 2020 to Sept 9, 2020.
5.	Forum	Research	"1 st forum for Women in research" organized by office of VCRGS/UoS. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid & Islam Altayeb. Aug. 26, 2020.
6.	Webinar	Teaching Learning &	"Animal Biotechnology: The next Frontier". Organized by ISAAA. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury & Tasneem Obaid. Aug. 27, 2020
7.	Webinar	Teaching Learning &	"الإرشاد الأكاديمي: أفضل الممارسات العالمية" على برنامج Microsoft Teams Organized by Disability Resource Center. Attended by Racha Al-Khoury, Islam ELTayeb and Tasneem Obaid. August 27, 2020.
8.	Webinar	Teaching Learning &	"An Introduction to Labster". Attended by Dr. Ban Al-joubori, Racha Al-Khoury & Tasneem Obaid. Sept. 2, 2020.
9.	Online Workshops	Teaching learning, and	IT Orientation Workshop, organized by IT Centre. Attended by Islam Altayeb. September 5th, 2020.
10.	Workshop	Teaching Learning &	Academic Advising. Sept. 20 th , 2020

11.	Online Conference	Teaching Learning &	All faculty attended the The Second Annual Strategic conference Organized by the Office of the Chancellor at UoS on October 8, 2020
12.	Online workshop	Research Teaching and learn	Ethics in Humanities & Social Sciences. Attended by Islam Altayeb & Tasnim Obaid. October 13, 2020.
13.	Webinar	Research	5th Res. Café Talk: "Creativity 4 for the 4 th IR", organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Nov. 1, 2020.
14.	Online Conference	Teaching Learning &	All DAB faculty attended 2 nd UoS Annual Strategic Conference. Oct. 8 th , 2020
15.	Online Seminar	Teaching Learning &	"How to separate Truth from Hype: Understanding what Technology Can and cannot do to transform education and training". Organized by Contact North/Nord. Attended by Dr. Ban Al-Joubori. Oct. 9, 2020.
16.	Workshop	Research	"Pre-Award: Res. Funding Opportunities- Grants and Guidelines", organized by: VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Oct. 11, 2020.
17.	Workshop	Teaching Learning &	"Successful online exams: The faculty Perspectives" organized by Institute of Leadership in Higher Education. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury & Tasneem Obaid. Oct. 11, 2020.
18.	Exhibition	Workshops Seminars and	WETEX (The Water, Energy, Technology, and Environment Exhibition) organized by Dubai government with Siemens. Attended by Dr. Ban Al-Joubori & Islam Altayeb. October, 2020
19.	Online Meeting	Teaching Learning &	Comparative Judgment (CJ) Orientation: EmSAT Biology (ACH). Oct. 15 th , 2020
20.	Webinar	Teaching Learning &	COVID-19/SARS-COV-2 Research. Oct. 15, 2020.
21.	Online Forum	Teaching Learning &	Student Engagement at a Time of Change and Transformation forum Organized by The Institute of Leadership in Higher Education. Attended by: Prof. Ismail Saadoun, Racha Al-Khoury and Tasneem Obaid. October 20, 2020.

22.	Workshop	Research		“How to manage your citations using Mendeley”, organized by VCRGS/UoS. Attended by: Dr. Ban Al-Joubori. Oct. 25, 2020
23.	Webinar	Teaching Learning	&	Covid-19 Myths vs Facts Presented by Prof. Qutayba Hamid. Attended by Dr. Ban Al-Joubori. Oct. 25, 2020.
24.	Workshop	Teaching Learning	&	Meeting with the Ministry of education regarding “proposal of workshops on online lab delivery”. Attended by Dr. Ban Al-Joubori. Oct. 26, 2020.
25.	Online Seminar	Teaching Learning	&	“How to use chatbots and intelligent systems to provide 24/7 tutoring to students”, organized by Contact NorthNord. Attended by Dr. Ban Al-Joubori. Oct. 27, 2020
26.	Webinar	Research		6 th Res. Café Talk: “The Power and Challenges of Interdisciplinary Research”, organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Nov. 1, 2020.
27.	Symposium	Workshops Seminars	and	Droplet Digital PCR Virtual Symposium meeting on 5th Nov, BIORAD
28.	Webinar	Teaching Learning	&	“ Science Frontiers ” Spectroscopies with Synchrotron Radiation & their Applications for Energy Sciences. Dr Zahid Hussein (Berkeley, USA). Nov. 11, 2020
29.	Workshop	Teaching learning	and	IT center at University of Sharjah: Participation & Engagement Tools. Attended by Islam Eltayeb & Tasnim Obaid. November 12th, 2020.
30.	Workshop	Research		“How to supervise PhD students”, organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Nov. 15, 2020.

31.	Workshop	Teaching Learning &	"COVID-19 projections for the middle east", organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Nov. 24, 2020.
32.	Conference	Worksops Seminars and	مؤتمر صحتي الثامن Supreme Council For Family Affairs , Sharjah. Attended by Islam Eltayeb. Nov. 24-26, 2020
33.	Webinar	Research, Teaching and learning	Gold 2022 Webinars, Webenar 1: Gold Catalysis. Attended by Islam Eltayeb. November 25, 2020.
34.	Exhibition	Worksops Seminars and	11th Biotechnology Students' Virtual Exhibition. Attended by all DAB members. Nov 25, 2021.
35.	Workshop	Teaching Learning &	"Administering and Troubleshooting Online Exams-1" organized by IT Centre. Attended by Dr. Kareem Mosa, Dr. Muhammed Nasir Khan, Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid. Nov. 29, 2020
36.	Webinar	Research	7th Res. Café Talk: "The exit of the oil age", organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. Dec. 1, 2020.
37.	Workshop	Research	"Writing Effective Research Proposals", organized by VCRGS. Attended by Dr. Ban Al-Joubori & Racha Al-Khoury. Dec. 7, 2020.
38.	Conference	Continuing Medical Education	Leaders in Healthcare – Global Insights Sessions, during Global Health Exhibition (KSA)– The Virtual Edition. Attended by Islam Eltayeb. December 7-10 2020
39.	Meeting	Teaching Learning &	Meeting Biotechnology students under the supervision of Prof. Elsiddig. Dec. 20 th , 2020
40.	Webinar	Teaching Learning &	"And within yourselves. Do you not see? وفي أنفسكم أفلا تبصرون" Prof. Elsiddig Elshaikh. Attended by all faculty members. Dec. 23 rd , 2020.

41.	Training	Continuing Medical Education	Infection Prevention and Control Course (IPC), 30 hours, Ibn Sina University, Khartoum, Sudan. Attended by Islam Eltayeb. January 2021.
42.	Workshop	Teaching Learning &	"Labster Virtual Labs Training", organized by IT centre. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury & Tasneem Obaid. Jan. 13, 2021.
43.	Online Training	Teaching Learning &	MGH- Connect and blackboard Training Organized by the IT Center at UoS. Attended by Racha Al-Khoury. January 20, 2021
44.	Workshop	Teaching learning and	Ministry Of Education workshop. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid & Islam Eltayeb. Jan 21, 2021 and Feb 21, 2021.
45.	Workshop	Teaching Learning &	"Explore Blackboard Ultra", organized by IT Centre. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid & Islam Altayeb. Jan 21, 2021.
46.	Webinar	Worksops Seminars and	Green synthesis of silver nanoparticles using UAE native plants and their biological activities" presented by Dr. Kareem Mosa. Attended by Dr. ban Al-Joubori, Tasnim Obaid & Islam Eltayeb. Jan 21, 2021, UOS
47.	Workshop	Teaching Learning &	"Hands on Educational Games to Strengthen the Quality of Course Delivery & Student Engagement in Online Classes", organized by Institute of Leadership and Higher Education. Attended by Dr. Ban Al-Joubori, Racha Al-Khoury & Tasneem Obaid. Jan. 24, 2021.
48.	Online Meeting	Teaching Learning &	Possible collaborations between The Private Office of Sheikh Saeed Bin Ahmed Al Maktoum (TPO) & UoS. Jan. 28 th , 2021
49.	Workshop	Teaching Learning &	Preparation for the renewal of accreditation of the Bachelor and Master in Biotechnology (April 2021) organized by "Prof. Esam Agamy & Dr. Ismail ben Douissa". Attended by all faculty members. Jan. 31 st , 2021
50.	Webinar	Teaching Learning &	webinar تجربة تدريس المختبرات في ظل جائحة كورونا Organized by the Department of Applied

			physics. Attended by Dr. Ban Al-Joubori & Racha Al-Khoury. February 1, 2021.
51.	Webinar	Teaching Learning &	The 9 th Research Café Talk: When Should I Stop Doing Research? Prof. Qutayba Hamid, Vice Chancellor & Dean of College of Medicine. Attended by Dr. Ban Al-Joubori & Tasnim Obaid. Feb. 7 th , 2021
52.	Workshop	Teaching Learning &	Academic Advising. Feb. 7 th , 2021
53.	Webinar	Teaching Learning &	"Crime Scene Village" (Expert Major Ali Al-Hamadi). Feb. 9 th , 2021
54.	Online forum	Research	The 6 th International Forum on Innovation and Entrepreneurship Organized by University of Sharjah in collaboration with Sharjah Chamber of Commerce and Industry on February 9, 2021. Attended by Racha Al-Khoury.
55.	Conference	Teaching Learning &	Celebration of the International day of women and girls in science, organized by ICESCO. Attended by Dr. Ban Al-Joubori. Feb. 11, 2021.
56.	Webinar	Teaching Learning &	"Crime Scene, from Scene to Court" (Expert Colonel Naji Al-Hamadi). Feb. 11 th , 2021
57.	Workshops	Research, teaching & Learning	Quantitative Analysis Training , لقاء الغربية . Attended by Islam Eltayeb. Feb 13 to March 03, 2021.
58.	Workshop	Teaching learning and	Grade centre and online class attendance, organized by IT centre. Attended by Dr. Ban Al-Joubori. March 03, 2021.
59.	Workshops	Teaching learning and	Using Zoom and MS Teams as a Second Camera for invigilating Online Exams, organized by IT Centre. Attended by Islam Eltayeb & Tasnim Obaid. March 6 th , 2021.
60.	Workshops	Teaching learning and	2nd Camera Workshop, by Dr. Amir Khan. Attended by all DAB faculty members. March 7, 2021, UOS
61.	Webinar	Worksops and Seminars	The golden age of colloid and surface science of aryldiazonium salt by Dr. Ahmed Ali (Chem. Dept.). Attended by Islam Eltayeb. March7, 2021

62.	Webinar	Teaching Learning &	DNA Role in Forensic Science. Expert Salem Al Khayyal. Sharjah Forensic Lab. March 11 th , 2021
63.	Workshop	Research	"From University Research to Real Impactful and Patentable Research", organized by VCRGS/UoS. Attended by Dr. Muhammed Nasir Khan, Dr. Ban Al-Joubori & Islam Altayeb. March 14, 20201.
64.	Conference	Continuing Medical Education	4th UAE International Virtual Conference on Antimicrobial Resistance (ICAMR), Dubai Health Authority. Attended by Islam Altayeb. March 20-27, 2021.
65.	Webinar	Worksops and Seminars	Prediction of protein , ligand interactions using computational methods, by Dr. Mahreen Arooj (Chem. Dept.). Attended by Islam Eltayeb. March 21, 2021,
66.	Webinar	Seminars Research, teaching & Learning	Elsevier Author Workshop. Attended by Islam Eltayeb. March 24, 2021.
67.	Webinar	Workshop and Seminars	GOLD 2022 Webinars - Webinar 5: Interactions of molecules with gold surfaces. Attended by Islam Eltayeb. March 24, 2021
68.	Webinar	Research	11th Res. Café Talk: تأثيرات كوفيد 19 على البحث العلمي في العلوم الانسانية والاجتماعية organized by VCRGS/UoS. Attended by Dr. Ban Al-Joubori. April 4, 2021.
69.	Conference	Conference	المؤتمر الدولي الرابع للعلوم عند العرب و المسلمين from April 4-6, 2021, UOS Attended by Prof. Ismail Saadoun, Dr. Ban Al-Joubori, Racha Al-Khoury and Islam Altayeb
70.	Online training	Teaching Learning &	Lab Risk Assessment Workshop, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid. April 08, 2021.

71.	Webinar	Worksops Seminars	and	covid 19, on اداره الازمات والكوارث في ظل جائحه organized by UOS. Attended by Islam Eltayeb. April 8, 2021.
72.	Webinar	Research, Worksops Seminars	and	البحث العلمى في جامعه الشارقه المنح والفرص و التوقعات Attended by islam eltayeb. April 11, 2021.
73.	Webinar	Teaching Learning	&	Role of Forensic Odontology in Criminal Investigations & Disaster Victim Identification presented by Dr. Suhil Alamad/College of Dentistry. April 15 th , 2021
74.	Webinar	Teaching Learning	&	A rapid electrochemical test for porosity in electroless nickel coatings on carbon steel substrates“ presented by Dr. Ayssar Nahle. Attended by Prof. Ismail Saadoun. April 18 th , 2021.
75.	Webinar	Teaching Learning	&	“Illicit Drug and Forensic Toxicology” presented by Captain Aisha M. Al-Shihhi”. Attended by Prof. Ismail Saadoun. April 27 th , 2021.
76.	Online workshop	Assessment		The Online and Onsite Exam Setup workshop Organized by Information Technology Center on April 29, 2021. Attended by: Racha Al-Khoury and Tasneem Obaid.
77.	Workshop	Teaching & learning		Workshop on Higher Education institutions in the time of COVID19.
78.	Online training	Community development		Training on Work Stress Management, the Center for Continuing Education and Professional Development
79.	Online Orientation	Teaching Learning	and	Training Workshop organized by IT center; IT Orientation Day: General Presentation
80.	Online Orientation	Teaching learning	and	Training Workshop Organized by IT center; IT Orientation Day: English Workshops
81.	Webinar	Teaching learning	and	Seminar delivered in the Department; “And within yourselves. Do you not see?”
82.	Workshop:	Research		Writing Effective Research Proposal Effective way to write a research grant.
83.	Workshop:	Environment		Circular Economy.

			Use of Resources
84.	Workshop:	Teaching	Student Engagement at a Time of Change & Transformation Student involvement in online teaching
85.	Online Training	teaching & Learning	"Ruberic and attendance" arranged by IT UOS. Attended by Dr. Muhammed Nasir Khan
86.	Online Training	Research, teaching & Learning	"How to use SciVal arranged by VC for research" UoS. Attended by Dr. Muhammed Nasir Khan
87.	Online Workshop:	Teaching & Learning	"How to prepare and present online classes using blackboard tools", organized by the Department of Applied Biology, College of Sciences, University of Sharjah. Attended by Dr. Kareem Mosa.
88.	Online training	Teaching & Learning	Coronavirus (COVID-19) Prevention in the workplace, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
89.	Online training	Teaching & Learning	Personal Protective Equipment, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
90.	Online training	Teaching & Learning	Pipetting Safety, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
91.	Online training	Teaching & Learning	Laboratory Safety-Physical Hazards, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
92.	Online training	Teaching & Learning	Laboratory Safety-Chemical Hazards, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
93.	Online training	Teaching & Learning	Laboratory Safety, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
94.	Online training	Teaching & Learning	Formaldehyde Safety in Research and Education, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.

95.	Online training	Teaching Learning	&	Fire Safety, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
96.	Online training	Teaching Learning	&	Eye Wash and Safety Shower Awareness (Microlearning), organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
97.	Online training	Teaching Learning	&	Emergency Response, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
98.	Online training	Teaching Learning	&	Electrical Safety, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
99.	Online training	Teaching Learning	&	Compressed Gas Safety, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
100.	Online training	Teaching Learning	&	Corona virus (COVID-19) awareness, organized by Central Labs. Attended by: Dr. Kareem Mosa, Dr. Ban Al-Joubori , Racha Al-Khoury & Tasnim Obaid.
101.	Webinars	Teaching Learning	&	Best Teaching Practices webinars Organized by College of Sciences for the academic year 2020-2021. Attended by Prof. Ismail Saadoun, Dr. Muhammed Nasir Khan, Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid & Islam Eltayeb.
102.	DAB webinars	Teaching Learning	&	Webinars Organized by the Department of Applied Biology throughout the academic year 2020-2021. Attended by all DAB faculty members.

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
1	Workshop(MZ)	Research	Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development October 26- November 7, 2020

1	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 الشنوية 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.	Best Research published in the Hamdan Medical Journal	Dr. Abdelaziz Tlili	Sheikh Hamdan bin Rashid Al Maktoum Award for Medical Sciences
2.	Sharjah Islamic Bank Award for Distinguished Research	Dr. Abdelaziz Tlili	Sharjah Islamic Bank

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	<i>McGraw Hill</i>
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 Appreciation For the contribution to the organization of the 4 th International Conference on the History of Arabs and Muslims in Sciences	Racha Al-Khoury	University of Sharjah
2.	Certificate of attendance "Blended Learning Webinar"	Dr. Ban Al-Joubori	The British University in Dubai
3.	Certificate of Attendance For the contribution to the organization of the 4 th International Conference on the History of Arabs and Muslims in Sciences	Dr. Ban Al-Joubori, Islam Eltayeb	University of Sharjah
4.	Certificate of attendance: An Introduction to Labster	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam ELTayeb, Uzma Inayat	Labster
5.	Certificate of attendance "How to Manage Your Citations Using Mendeley" workshop	Dr. Ban Al-Joubori	VCRGS
6.	Certificate of attendance	Dr. Ban Al-Joubori	VCRGS

	"Pre-Award: Research Funding Opportunities- Grants & Guidelines.		
7.	Certificate of attendance "Electric Cars in the UAE: History, Benefits and Challenges"	Dr. Ban Al-Joubori	WETEX and Dubai Solar Show
8.	Certificate of attendance "How to Supervise PhD students"	Dr. Ban Al-Joubori	VCRGS
9.	Certificate of Attendance The Second Annual Strategic Conference	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	Office of the Chancellor at UoS
10.	Certificate of Attendance Labster Lab Simulation Training Session	Dr. Ban Al-Joubori, Racha Al-Khoury, Islam El-Tayeb, Tasneem Obaid	Labster
11.	Certificate of Attendance 1 st Forum for Women in Research Empowering Women in Scientific Research: Challenges, Opportunities and Recommendations	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam ElTayeb	Office of Vice Chancellor for Research and Graduate Studies at UoS
12.	Certificate of Completion Laboratory Safety- Physical Hazards	Dr. Ban Al-Joubori, Racha Al-Khoury Tasneem Obaid	UoS Central Labs
13.	CERTIFICATE OF COMPLETION CORONAVIRUS (COVID-19) PREVENTION IN THE WORKPLACE	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	UoS Central Labs
14.	CERTIFICATE OF COMPLETION LAB RISK ASSESSMENT WORKSHOP	Dr. Ban Al-Joubori, Racha Al-Khoury Tasneem Obaid	UoS Central Labs
15.	Certificate of Attendance "الإرشاد الأكاديمي": أفضل الممارسات العالمية" على برنامج Microsoft Teams	Racha Al-Khoury Tasneem Obaid	Disability Resource Center at UoS
16.	Certificate of Attendance The COVID19 and Children Webinar	Racha Al-Khoury, Uzma Inayat, Islam ElTayeb	<i>Epidemiology and Biostatistics Unit</i>

			<i>Medical and Health Sciences campus</i>
17.	Certificate of Attendance Animal Biotech Webinar	Dr. Ban Al-Joubori, Racha Al-Khoury Tasneem Obaid	ISAAA
18.	Certificate of Attendance Writing Effective Research Proposals	Dr. Ban Al-Joubori, Racha Al-Khoury	The Office of Vice Chancellor for Research & Graduate Studies at UoS
19.	Certificate of Attendance MGH- Connect and blackboard Training	Racha Al-Khoury	IT Center at UoS
20.	Certificate of Attendance تجربة تدريس المختبرات في ظل جائحة كورونا	Racha Al-Khoury	College of Sciences and Department of Applied Physics at UoS
21.	Certificate of Attendance 6th International Forum on Innovation and Entrepreneurship	Racha Al-Khoury	University of Sharjah in collaboration with Sharjah Chamber of Commerce and Industry on February 9, 2021
22.	Certificate of Attendance Online and Onsite Exam Setup	Racha Al-Khoury Tasneem Obaid	Information Technology center at UoS
23.	Certificate of Attendance Translational Research: Bridging the Gap between Basic and Clinical Research	Racha Al-Khoury	The office of the Vice Chancellor for Research and graduate Studies
24.	Certificate of Attendance: Best Teaching Practices organized by the College of Sciences, Department of Applied Physics and Astronomy	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	College of Sciences
25.	Certificate of Attendance The 6th Research Café: The power and challenges of interdisciplinary Research	Dr. Ban Al-Joubori, Tasneem Obaid	UoS

26.	Certificate of Attendance The 9th Research Café: When I should stop doing research.	Dr. Ban Al-Joubori, Tasneem Obaid	UoS
27.	Certificate of Attendance "COVID-19 Projections for the Middle East"	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	<i>Epidemiology and Biostatistics Unit Medical and Health Sciences Campus</i>
28.	Certificate of attendance: Workshop on Administering and Troubleshooting Online Exams -2	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam ElTayeb	IT/UoS
30.	Certificate of attendance virtual workshop "Ethics in Humanities and Social Sciences"	Tasneem Obaid, Islam ElTayeb	UoS
31.	Certificate of Attendance "Student Engagement at a Time of Change & Transformation" Workshop	Racha Al-Khoury, Tasneem Obaid	Institute of Leadership in Higher Education/ UoS
32.	Certificate of attendance "Hands on Educational Games to Strengthen the Quality of Course Delivery & Student Engagement in Online Classes" Workshop	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	Institute of Leadership in Higher Education/ UoS
33.	Certificate of attendance Training workshop (2 hours) "Successful Online Exams: The Faculty Perspectives" organized by the Institute of Leadership in Higher Education	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	Institute of Leadership in Higher Education/ UoS
34.	Certificate of Attendance "Participation & Engagement Tools" workshop	Tasneem Obaid, Islam ElTayeb	Institute of Leadership in Higher Education/ UoS
35.	Certificate of attendance UOS Strategic Annual Conference 2020	Racha Al-Khoury, Tasneem Obaid	UoS
36.	Certificate of attendance The 7th Research Café: The Exit of The Oil Age	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	UoS

37.	Workshops on "how to use Nearpod to Increase Student Engagement & Motivation.", organized by the Institute of Leadership in Higher Education. (Arabic)	Tasneem Obaid	Institute of Leadership in Higher Education/UoS
38.	Certificate of Completion Online Training on Lab Safety including: Personal Protective Equipment, Compressed Gas Safety, Pipetting Safety, Laboratory Safety - Chemical Hazards, Laboratory Safety, Formaldehyde Safety in Research and Education, Electrical Safety / NFPA 70E in Research and Education, Fire Safety, Eye Wash and Safety Shower Awareness (Microlearning), Emergency Response.	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid	Central Lab/UoS
40.	Certificate of attendance Training on " Security System in IT". (Arabic)	Tasneem Obaid	UoS
42.	Certificate of attendance LabView Training	Tasneem Obaid	IT/UoS
44.	Certificate of attendance 5th Research Café: The creativity 4 the 4th IR	Dr. Ban Al-Joubori, Tasneem Obaid	UoS
45.	Certificate of attendance 1 st Forum Women in Research	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam ElTayeb	UoS
46.	Certificate of attendance Training on "Explore BlackBoard Ultra"	Dr. Ban Al-Joubori, Racha Al-Khoury, Tasneem Obaid, Islam El-Tayeb	UoS/IT
47.	Certificate of attendance Workshop "Kick-off & Integrating multimedia in online course design using HSP", organized by the Institute of Leadership in Higher Education.	Tasneem Obaid	Institute of Leadership in Higher Education.

48.	Certificate of attendance Workshop: "Speed up the learning using Socrative" organized by the Institute of Leadership in Higher Education.	Tasneem Obaid	Institute of Leadership in Higher Education
49.	Certificate of attendance 6 TH Research café talk "The power and challenges of interdisciplinary research"	Dr. Ban Al-Joubori, Uzma Inayat	OVCRG/UOS
50.	Certificate of Attendance Workshop: Participation and Engagement tools	Uzma Inayat	IT centre/UOS
51.	Certificate of Attendance Workshop: Online Exams and Grade Centre	Uzma Inayat	IT centre/UOS
52.	Certificate of Attendance The First Academic Forum, 25 August 2020 to 09 September 2020,	Islam Eltayeb	لقاء الغربيه
53.	أفضل الممارسات العمالية في الإرشاد الأكاديمي Certificate of Attendance 27, Aug., 2020 UOS	Islam Eltayeb	UOS
54.	مؤتمر صحتي الثامن Certificate of attendance Supreme Council For Family Affairs , Sharjah, 26-24 Nov., 2020	Islam Eltayeb	Supreme Council For Family Affairs
55.	Certificate of attendance Leaders in Healthcare – Global Insights Sessions, during Global Health Exhibition (KSA)– The Virtual Edition from 7-10 December 2020	Islam Eltayeb	Saudi Council for Health Specialties Riyadh, Saudi Arabia
56.	Certificate of attendance Infection Prevention and Control Course (IPC), Ibn Sina University, January, 2021, Khartoum, Sudan	Islam Eltayeb	IbnSina University
57.	Certificate of attendance Quantitative Analysis Training , 13, Feb to 03, March لقاء الغربيه	Islam Eltayeb	لقاء الغربيه
58.	Certificate of attendance	Dr. Ban Al-Joubori, Islam Eltayeb	VCRGS

	“From University Research to Real World Impactful and Patentable Research”		
59.	Certificate of attendance 4th UAE International Virtual Conference on Antimicrobial Resistance (ICAMR)	Islam Eltayeb	Dubai Health Authority
60.	Certificate of attendance البحث العلمي في جامعهه الشارقه المنح والفرص و التوقعات	Islam Eltayeb	UOS
62.	Certificate of attendance اداره الازمات والكوارث في ظل جائحه covid 19 8,	Islam Eltayeb	UOS

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	DEWA (Solar Innovation Center)

		& Moh'd Mansour	
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)
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Efforts to Enhance Academic Advising:

- Please list some of your techniques here

5.6 Student Extra-Curricular Activities

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
Department of Applied Biology					
No	Activity Name	Type*	Scope**	Date	Beneficiaries
	Virtual Orientation Day	Online event	University of Sharjah, local and National community	September 1 and 2, 2020	UoS
	Nomination of Biotechnology student to represent DAB in	Societies	Biotechnology Students	Sep. 1, 2020	Biotechnology Students

	the College Council at the college level				
3	Biotechnology Students' Training Summer 2019-2020	Online Event	Local	September 13, 2020	DAB students and DAB
4	Biotechnology Students Orientation Day	Introducing the newly admitted students to the Biotechnology Program.	Biotechnology Students	Sep. 20, 2020	Biotechnology Students
5	College of Sciences Stress Relief Gathering	Online Gathering	Local	November 10, 2020	College of Sciences Faculty, staff and students
6	11 th Biotechnology Students' Exhibition	Online Exhibition	University of Sharjah, local community	December 4, 2020	UoS, DAB and DAB students
7	Public lecture	Lecture	Department	23-12-2020	All Departmental students
8	Biotechnology Students' Research Project Defense Fall 2020-2021	Online Event	Local	December 28, 2020	DAB students and DAB
9	Engaged Biotechnology students in Workshop of Best Teaching Practices "Students'	Workshop	UoS Level	Feb. 4, 2021	Biotechnology Students

	Experiences about Online Learning"				
	Engaged Biotechnology students in Workshop and Forum-Jubilee Lab	Workshop and Forum	National Level	Feb. 6&7, 2021	Biotechnology Students
	Engaged Biotechnology students in Tutoring Program	Teaching and Learning	Biotechnology Students	From Feb. 14, 2021 till May 17, 2021	Biotechnology Students
	Alumni Event	Social	Alumni and Biotechnology Students	11 of April, 2021	Alumni and Biotechnology Students
	Engaged Biotechnology students in TV competition- كأس المعرفة	Competition	National Level	Apr. 12-May 11, 2021. One hour per day for Ramadan	Biotechnology Students
	Inter College Environmental Public Speaking Competition	Competition	Students	Nov. 18, 2020	Students from all Arab countries
	Biotechnology Students' Research Project Defense Spring 2020-2021	Online Event	Local	May 27, 2021	DAB students and DAB
	UoS Open Day	Online event	Local	May 25-26, 2021	UoS, Co.Sc., DAB and national high

					school students
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Department of Applied Biology					
No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1.	Virtual Orientation Day	Online event	University of Sharjah, local and National community	September 1 and 2, 2020	UoS
2.	Nomination of Biotechnology student to represent DAB in the College Council at the college level	Societies	Biotechnology Students	Sep. 1, 2020	Biotechnology Students
3.	Biotechnology Students' Training Summer 2019-2020	Online Event	Local	September 13, 2020	DAB students and DAB
4.	Biotechnology Students Orientation Day	Introducing the newly admitted students to the Biotechnology Program.	Biotechnology Students	Sep. 20, 2020	Biotechnology Students
5.	College of Sciences Stress Relief Gathering	Online Gathering	Local	November 10, 2020	College of Sciences Faculty, staff and students

6.	11 th Biotechnology Students' Exhibition	Online Exhibition	University of Sharjah, local community	December 4, 2020	UoS, DAB and DAB students
7.	Public lecture	Lecture	Department	23-12-2020	All Departmental students
8.	Biotechnology Students' Research Project Defense Fall 2020-2021	Online Event	Local	December 28, 2020	DAB students and DAB
9.	Engaged Biotechnology students in Workshop of Best Teaching Practices "Students' Experiences about Online Learning"	Workshop	UoS Level	Feb. 4, 2021	Biotechnology Students
10.	Engaged Biotechnology students in Workshop and Forum-Jubilee Lab	Workshop and Forum	National Level	Feb. 6&7, 2021	Biotechnology Students
11.	Engaged Biotechnology students in Tutoring Program	Teaching and Learning	Biotechnology Students	From Feb. 14, 2021 till May 17, 2021	Biotechnology Students
12.	Alumni Event	Social	Alumni and Biotechnology Students	11 of April, 2021	Alumni and Biotechnology Students

13	Engaged Biotechnology students in TV competition- كأس المعرفة	Competition	National Level	Apr. 12-May 11, 2021. One hour per day for Ramadan	Biotechnology Students
14	Inter College Environmental Public Speaking Competition	Competition	Students	Nov. 18, 2020	Students from all Arab countries
15	Biotechnology Students' Research Project Defense Spring 2020-2021	Online Event	Local	May 27, 2021	DAB students and DAB
16	UoS Open Day	Online event	Local	May 25-26, 2021	UoS, Co.Sc., DAB and national high school students

Newly Enrolled Students (2020-2021)

12. Students

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

5.2 Enrolled Students

Fall 2020/2021		F	M	Total
		Major	Major	
Grad	Chemistry	20	0	20
	Applied Biology	10	1	11
	Physics			
	Total	30	1	
UG	Applied Physics			
	Biotechnology	363	30	393
	Chemistry	67	14	81
	Mathematics	39	8	47
	College Total	529	54	552

Spring 2019/2020		F	M	Total
		Major	Major	
Grad	Chemistry	20	0	20
	Applied Biology			
	Physics			
	Total			
UG	Applied Physics			
	Biotechnology	97	10	107
	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					
		F					
		M					
		Total	10	0	2	0	12
	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 Almehdi	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 Sadoun	Professor	58	58
2.	Ali El-Keblawy	Professor	53	53
3.	Elsiddig A.E. Elsheikh	Professor	41	41
4.	Ihsan Mahasneh	Professor	55	53
5.	Mona Hassuneh	Associate Professor	52	52
6.	Abdelaziz Tlili	Associate Professor	35	35
7.	Hassen Hadj Kacem	Associate Professor	90	90
8.	Khalid Bajou	Associate Professor	81	81
9.	Muhammad Nasir Khan	Assistant Professor	44	54
10	Kareem Mosa	Assistant Professor	69	69
11	Amir Ali Khan	Assistant Professor	54	59
12	Abdalla Al Mutery	Assistant professor	26	26
Total			658	673
			Total	673

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	Muhamed 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

*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**
- All faculty have been requested to meet at least once per semester with students.
- Meet with students who are under probation and advise them according to the Bylaws of UOS to improve their GPA. A special form was signed by the student and the advisor.

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

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

- **Physics**
- All faculty have been requested to meet at least twice per semester with students.
- Follow closely with students who are under probation and advise them accordingly.
- MS Teams sessions during the online teaching period to follow the students performance.
- Contact with advisees and keep records of their academic achievements

5.6 Student Extra-Curricular Activities

Department of Chemistry					
No.	Activity Name	Type*	Scope**	Date	Beneficiaries
1.	Student training in the department of chemistry	Training	National	from march to May	Industrial training students

2.	Student training in dubai police labs analysing samples related to drug and crimes	Training	National	from march to May	Industrial training students
3.	Student training in dubai police labs analysing samples related to drug and crimes	Training	National	from march to May	Industrial training students
4.	Student training in the sharjah food labs for quality control of foods in the market	Training	National	from march to May	Industrial training students
5.	Student training in dubai police labs analysing samples related to drug and crimes	Training	National	from march to May	Industrial training students
6.	Student training in the sharjah food labs for quality control of foods in the market	Training	National	from march to May	Industrial training students
7.	Student training in the sharjah food labs for quality control of foods in the market	Training	National	from march to May	Industrial training students
8.	Student training in the sharjah food labs for quality	Training	National	from march to May	Industrial training students

	ontrol of foods in the market				
9.	<p>Alumni and currently registered chemistry students had the opportunity to discuss for over a period of one hour the job offer in detail as well as sharing their thoughts and renew their contacts with the department of chemistry. The students also were informed about other job opportunities in the University as research assistants. They were also encouraged to apply for the MSc in chemistry or any closed subject at the University of Sharjah.</p>	Job mentoring workshop	National	10/29/2020	Alumni and currently registered senior chemistry students
10.	High School Chemistry Festival	Publicizing for the B.Sc. &M.Sc. programs	National	5/26/2021	High School students, College of Sciences students, academics, and staff

	"Chemistry Day with The Art and Craft of Natural Homemade Soap WORKSHOP"				
11.	Open Days/ College of Sciences/ Department of Chemistry	Publicizing for the B.Sc. &M.Sc. programs	National	25 th & 26 th May 2021	High School students, College of Sciences students, academics, and staff
12.	Chemistry student's association	Activities for BSc students	National	Fall and Spring Semesters	Currently registered Chemistry students

Department of Applied Biology					
No	Activity Name	Type*	Scope**	Date	Beneficiaries
	Virtual Orientation Day	Online event	University of Sharjah, local and National community	September 1 and 2, 2020	UoS
	Nomination of Biotechnology student to represent DAB in the College Council at the college level	Societies	Biotechnology Students	Sep. 1, 2020	Biotechnology Students

	Biotechnology Students' Training Summer 2019-2020	Online Event	Local	September 13, 2020	DAB students and DAB
	Biotechnology Students Orientation Day	Introducing the newly admitted students to the Biotechnology Program.	Biotechnology Students	Sep. 20, 2020	Biotechnology Students
	College of Sciences Stress Relief Gathering	Online Gathering	Local	November 10, 2020	College of Sciences Faculty, staff and students
	11 th Biotechnology Students' Exhibition	Online Exhibition	University of Sharjah, local community	December 4, 2020	UoS, DAB and DAB students
	Public lecture	Lecture	Department	23-12-2020	All Departmental students
	Biotechnology Students' Research Project Defense Fall 2020-2021	Online Event	Local	December 28, 2020	DAB students and DAB
	Engaged Biotechnology students in Workshop of Best Teaching Practices "Students' Experiences about Online Learning"	Workshop	UoS Level	Feb. 4, 2021	Biotechnology Students

Engaged Biotechnology students in Workshop and Forum-Jubilee Lab	Workshop and Forum	National Level	Feb. 6&7, 2021	Biotechnology Students
Engaged Biotechnology students in Tutoring Program	Teaching and Learning	Biotechnology Students	From Feb. 14, 2021 till May 17, 2021	Biotechnology Students
Alumni Event	Social	Alumni and Biotechnology Students	11 of April, 2021	Alumni and Biotechnology Students
Engaged Biotechnology students in TV competition- كأس المعرفة	Competition	National Level	Apr. 12-May 11, 2021. One hour per day for Ramadan	Biotechnology Students
Inter College Environmental Public Speaking Competition	Competition	Students	Nov. 18, 2020	Students from all Arab countries
Biotechnology Students' Research Project Defense Spring 2020-2021	Online Event	Local	May 27, 2021	DAB students and DAB
UoS Open Day	Online event	Local	May 25-26, 2021	UoS, Co.Sc., DAB and national high school students

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	Programming 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 worksheets in PhET)	Volunteer	International	Fall & Spring 2020-2021	International Students
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	Saadiyah 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.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Outstanding Students in 2 nd year awarded to: 1- Asma EisamYousef Doostkam 2- Rand Mohammed Farid Bahada 3- Iman Wehbe 4- Fatma Zahra Mashhour Alkafri 5- Tasnim Abdullah 6- Zulfa Rahmat Damda Kallagar Mohiddin Shamsuddin
2.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Outstanding student in the 3 rd year awarded to: 1- Mohd Idris M. Nizam Uddin 2- Shamita Um Kandan
3.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Outstanding student in the 4 th year awarded to: 1- Ala Yousif Mohamed Hajjalreyes Alawadhi
4.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Oral Presentation in Microbial Biotechnology and Processing awarded to: 1- Lina Darwish 2- Maitha Reyadah 3- Wesam Ali 4- Raghad Majid Al Hayek
5.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Oral Presentation in Environmental Biotechnology awarded to: 1- Amani Fadil Alali 2- Shamma Alyammahi

				3- Sarah Mohammad Sabri 4- Alya Almehrzi
6.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Oral Presentation in Molecular Biology awarded to: 1-Deema Naser Yaseen 2- Reem Anwar Qannita 3- Shahed Awadh Bin Eshaq 4- Zain Murad Alnatsheh
7.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Basic Biotechnology (1 st Prize) awarded to: 1- Fatima Zahra Mashhour Alhafri 2- Iman Wehbe 3- Ahlam Wassim Kaddoura 4- Nour Moayad Tawfiq D'yab
8.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Basic Biotechnology (2 nd Prize) awarded to: 1- Farid Mohammed Farid 2- Nour Jasim 3- Aya Birouti 4- Adilbek Tokhirov 5- Khadijah Mohammed
9.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Basic Biotechnology (3 rd Prize) awarded to: 1- Ammarah Farheen Razack Ahmed 2- Neaimaa A. Faeq 3- Tibian O. Hamed Mohamed 4- Fatima Y. Mohamed Ibrahim Almaazmi 5- Naseebah S. Mustafa Khitreesh
10.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Molecular Genetics (1 st Prize) awarded to: 1- Tasnim Basem Othman 2- Ragahd Motaz 3- Hadeel Aziz 4- Ola AlShehadat 5- Alaa Abasalih
11.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in General Microbiology (1 st Prize) awarded to: 1-Sara Aldubaili 2- Sarah AlHebsi 3- Rola Ziyad

12.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Immunology (1 st Prize) awarded to: 1- Sara Naif Bahbough 2- Shaikha Jasim AlMehza 3- Shouq Rashid 4- Sara Amin 5- Fatma AlTamimi 6- Zainah Nabil Mohammed
13.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in Immunology (2 nd Prize) awarded to: 1- Marwa Khamis 2- Hind Abdelsalam 3- Fatma Mahmoud 4- Afra Al-Ali 5- Mariya Syed
14.	11 th Biotechnology Students' Exhibition	UoS, DAB, Online via Zoom	04.12.2020	Best Poster in M.Sc. in Biotechnology awarded to: Zamzam Yousef

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.

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
Practical Courses Taught	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
Equipment Available	<ul style="list-style-type: none">• Genetic Analyzer• PCR and RT-PCR thermal cyclers• VITEK Microbiology Identification System• Sonicator• Profinia protein purification system• Inverted and Fluorescent microscopes• Light Microscopes• CO₂ incubator.• Class II Biosafety Cabinets• Floor Orbital shaker• The BioSpectrum Imaging System• Nanodrop to assess DNA concentration and purity

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	71	71	79	220
Book Chapters	0	0	7	1	7
Conference Papers	5	1	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	81	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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8	<p>New Trends in Nanoparticle Magnetism Springer Series in Materials Science © 2021</p> <p><u>ISBN 978-3-030-60473-8</u></p> <p>Hollow Magnetic Nanoparticles (Pages 137-158)</p> <p>Hafsa Khurshid et al.</p>	Book Chapter
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18	<p>Silver nanoprisms/graphene oxide/silicon nanowires composites for R6G surface-enhanced Raman spectroscopy sensor</p> <p>Kais Daoudi, Mounir Gaidi and Soumya Columbus</p> <p>Biointerface Research in Applied Chemistry, 10 (2020) 5670.</p> <p>DOI https://doi.org/10.33263/BRIAC103.670674</p>	Journal Article
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21	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 Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah , ..., Zou, R., Zwalinski, L. Journal of High Energy Physics, 2021, 2021(4), 174	Journal Article Q1: top 94 %
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23	Measurement of the CP-violating phase ϕ_s in $B_s^0 \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV Aad, G., Abbott, B., Abbott, D.C., ..., R. Soualah , ..., Zou, R., Zwalinski, L. European Physical Journal C, 2021, 81(4), 342	Journal Article Q1: top 94 %
24	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse	Journal Article Q1: top 94 %

	<p>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>	
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 $\ell+\ell-\ell'+\ell'$ - and $\ell+\ell-\nu\nu^{-}$ 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</p>	<p>Journal Article</p> <p>Q1: top 94 %</p>

	<p>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>	
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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>

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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 field cavity</p> <p>A.-B. A. Mohamed, E. M. Khalil, A. Y. AL-Rezami and H. Eleuch</p> <p>Symmetry 13, 802 (2021).</p>	Journal Article
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38	<p>Atomic population inversion and absorption-dispersion spectra driven by modified 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>	Journal Article
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>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> <p>A.-B. A. Mohamed, E. M. Khalil, M. M. Selim and H. Eleuch</p> <p>Results in Physics 22, 103940 (2021).</p>	Journal Article

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 with the intrinsic decoherence</p>	Journal Article

	<p>A.-B. A. Mohamed, E. M. Khalil, M. Selim and H. Eleuch</p> <p>Symmetry 13, 352 (2021).</p>	
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> <p>A-H. Abdel-Aty, A. B. A. Mohamed, and H. Eleuch</p> <p>Physica E 128, 114529 (2021).</p>	Journal Article

50	<p>Detecting topological edge states with the dynamics of a qubit</p> <p>M. Zaimi, C. Boudreault, N. Baspin, H. Eleuch, R. MacKenzie, and M. Hilke</p> <p>Physics Letters A 388, 127035 (2021).</p>	Journal Article
51	<p>Einstein-Podolsky-Rosen steering and nonlocality in quantum dot systems</p> <p>K. Berrada, and Hichem Eleuch</p> <p>Physica E, 126 114412 (2021).</p>	Journal Article
52	<p>Non-Classical Computing Problems: Toward Novel Type of Quantum Computing Problems</p> <p>M. Zidan, M. Abdel-Aty, Hichem Eleuch, Abdelsa Obada</p> <p>Results in Physics 21, 103536 (2021)</p>	Journal Article
53	<p>Bures and Trace-Distance Correlations of Quantum Wells in Open Microcavities Linked by an Optical Waveguide</p> <p>A.-B. A. Mohamed, M. Abdel-Aty, and H. Eleuch</p> <p>Optik 225, 165744 (2021).</p>	Journal Article
54	<p>Optical Kerr nonlinearity in quantum-well micro cavities: From polariton to dipolariton, H. Jabri and H. Eleuch, Phys. Rev. A 102, 063713 (2020).</p>	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. Abualnaja, A.B.A Mohamed and H. Eleuch , Results in Physics 19, 103684 (2021).	Journal Article
59	Quantum effects in two-qubit systems interacting with two-mode fields: Dissipation and dipole-dipole	Journal Article

	interplay effects, Mostafa Khater, Abdel-Baset A. Mohamed, Hichem Eleuch , Abdel-shafi Obada, Results in Physics 17, 103019 (2020).	
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.	Jornal article Q1 top 95%

	DOI: 10.1016/j.physletb.2021.136077	
66	<p>Dark matter nature at electron-positron colliders: scalar or fermionic?</p> <p>N. Baouche & A. Ahriche,</p> <p>J.Phys.Conf.Ser. 1766 (2021) no.1, 012021.</p> <p>DOI: 10.1088/1742-6596/1766/1/012021</p>	Proceeding paper
67	<p>Identifying the higgs-gauge boson couplings signs at leptonic colliders</p> <p>H. Hamdellou & A. Ahriche,</p> <p>J.Phys.Conf.Ser. 1766 (2021) no.1, 012019.</p> <p>DOI: 10.1088/1742-6596/1766/1/012019</p>	Proceeding paper
68	<p>“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).</p>	<p>Journal Article</p> <p>Q1, 95%</p>
69	<p>“Contribution of Meteor Flux in the Occurrence of Sporadic-E over Arabian Peninsula,” Shaikh M. M., Gopakumar G., A. Al-Owais, and M. Sharif, Fernini, I (2021), Annales Geophysicae, Accepted.</p>	Journal Article
70	<p>“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</p>	Proceeding Paper

71	<p>“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.</p>	Journal Article
72	<p>“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 Aydarooos, and A. AlHameed, IAC 2020 Cyber Space Edition, 12-14 October 2020</p>	Proceeding Paper
73	<p>“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</p>	Proceeding Paper
74	<p>“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. AlNaimiy, IAC 2020 Cyber Space Edition, 12-14 October 2020</p>	Proceeding Paper
75	<p>“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</p>	Proceeding Paper

76	<p>In-field characterization of key performance parameters for bifacial photovoltaic installation in a desert climate</p> <p>Baloch, A.A.B., Hammat, S., Figgis, B., Alharbi, F.H., Tabet, N. 159, pp. 50–63</p> <p>Renewable Energy, 2020,</p>	Journal Article Q1 90 th
77	<p>“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</p>	Proceeding Paper
78	<p>“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</p>	Proceeding Paper
79	<p>“Lunar Flashes,” M. Talafha, I. Fernini, H. AlNaimiy, F. Chogle, and A. Pratap, IAC 2020 Cyber Space Edition, 12-14 October 2020</p>	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</p>	Journal Article

	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	
82	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	Journal Article Q1
83	“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	Journal Article
84	“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	Journal Article
85	<i>“Asymptotic entanglement sudden death in two atoms with dipole-dipole and Ising interactions coupled to a radiation field at non-zero detuning.”</i> Gehad Sadiq , Wiam Al-Drees, Salwa Shaglel, Hala Elhag, Entropy 23, 629 (2021) , arXiv:2105.05694	Journal article
86	Huda Aslam, Tarig Ali, Md Maruf Mortula, Atta G. Attaelmanan. Evaluation of microplastics in beach	Journal article

	sediments along the coast of Dubai, UAE, Marine Pollution Bulletin (2020) 150:110739. https://doi.org/10.1016/j.marpolbul.2019.110739	
87	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. https://doi.org/10.1016/j.jasrep.2020.102267	Journal article
88	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), https://doi.org/10.1016/j.tsep.2020.100589	Journal article
89	Hafiz Omer Ahmed, Attaelmanan Gaffar Attaelmanan, Fatima Ibrahim AlShaer and Eman Mohamed Abdallah. Determination of metals in children's plastic toys using X-ray fluorescence spectroscopy. Environmental Science and Pollution Research (2021), https://doi.org/10.1007/s11356-021-13838-1	Journal article

* 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	20	4	19	71
Focused Research Groups	0	4	2	1	2
Research Events	6	21	10	4	62
Research Seminars	5	11	10	10	23
Total	20	56	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	The role of nurse plants and nebkhas in combating desertification and restoration of degraded habitats of the arid deserts in the UAE	Prof Ali El-Keblawy	UoS	150,000
2	Investigations of the foliar secretory structures of potential native medicinal plants of UAE using microscopic techniques	Prof Ali El-Keblawy	UoS	122,000
3	Renewable and Alternative Fuels (Biodiesel and Biogas) from UAE Plants: Production Enhancement and Combustion Improvement using Nanoparticles	Prof Ali El-Keblawy	UoS and Sharjah Research Academy	400,000
4	Employing congeneric and biogeographic approaches to study <i>Prosopis juliflora</i> invasion at regional and global scales	Prof Ali El-Keblawy Prof Ismail Saduun	UoS and Sharjah Research Academy	400,000
5	Natural Lead Optimization of Cucubitacin from <i>Citrullus colocynthis</i> for the Development of Effective, Specific and Safe Anticancer Use.	Prof Ali El-Keblawy	Sharjah Research Academy	400,000
6	Impacts of environmental factors on germination, growth, oil yield and composition and biologically active anticancer compounds in <i>Citrullus colocynthis</i> : a native oily seeded potential cash-crop for marginal desert lands	Prof Ali El-Keblawy Dr. Kareem Mosa	UoS	192,000

7	SLC26A4 gene silencing for a potential siRNA-based therapy of respiratory inflammation.	Dr. Hassen Hadj Kacem	UOS	154,000 (2018-2021)
8	Screening of Autoimmune Thyroid Diseases Susceptibility Genes in a multigenerational family by Whole Exome Sequencing.	Dr. Hassen Hadj Kacem	UOS	15,000 (2020-2021)
9	Expression of SARS-Cov-2 receptor ACE2 and TMPRSS2 in IL4-induced human lung cell A549 in the presence of curcumin and/or 3-hydroxytyrosol.	Dr. Hassen Hadj Kacem	UOS	5,000 (2020-2021)
10	Molecular Genetics of Congenital Central Hypoventilation Syndrome	Dr. Hassen Hadj Kacem	UOS	5,000 (2020-2021)
11	Analysis of McCune-Albright Syndrome's related genes in an affected family	Dr. Hassen Hadj Kacem	UOS	5,000 (2020-2021)
12	Targeting PAI-1 in tumor angiogenesis and metastasis using 14K fragment of growth hormone, 16K fragment of prolactin and their derived peptides.	Dr. Khalid Bajou	UOS	190,000
13	PAI-1 in tumor angiogenesis and metastasis.	Dr. Khalid Bajou	UOS	79,000
14	Use of 14K growth hormone as a potent pro-thrombolytic agent.	Dr. Khalid Bajou	UOS	80,000

15.	Physiological, biochemical and molecular responses of vegetable crops to metal nanoparticles: a phytotoxicity assessment	Dr. Kareem Mosa	UOS	200,000 (2021 - 2023)
16.	DNA Barcoding of Important Medicinal Plants in UAE	Dr. Kareem Mosa	UOS	400,000 (2018-2021)
17.	Comparative analysis of differentially expressed genes in the UAE desert plant <i>Salsola drummondii</i> under heat stress	Dr. Kareem Mosa	UOS	5,000 (2020-2021)
18.	Anticancer activities of green silver nanoparticles in MDA-MB-231 cells	Dr Muhammad Nasir Khan	UoS	5,000 (2020-2021)
19.	Assessing the Ability of Sparteine Sulfate and Harpagoside to Induce Regulatory T-Cells Gene Profile in the in vitro Grown Murine Mononuclear Cells.	Dr. Mona Hassuneh	UOS	5,000 (2020-2021)
20.	The Immunomodulatory effects of two natural small molecules in the animal model of Multiple Sclerosis Experimental Autoimmune Encephalitis (EAE) , Competitive Grant , Research Institute For Sciences and Engineering	Dr. Mona Hassuneh	UOS	80,000 (2020-2021)
Total (AED)				2,892,000

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	Mounir Kaidi	University of Sharjah	196,000 AED

	nanocomposite for highly sensitive and fast gas/bio-sensing and water treatment applications, Funded by the University of Sharjah			
	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 Investigation the Thermal properties of the Al-Cladding Facades in UAE	Bashir Suleiman	University of Sharjah	75,000 AED
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-	Hafsa Khurshid	University of Sharjah	80,000 AED

	plasmonic hybrid nanoclusters for photo and magnetothermal therapy of cancer cells.			
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: Quantum entanglement sharing in two interacting two-level atoms coupled to an off-resonance quantized radiation field	Gehad Sadiak	University of Sharjah	80000
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	Nouar Tabet	University of Sharjah	200,000

	electricity and and Food in unfertile soils and hot climates Targeted Project 2020-2023			
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	2019	Prof. Muataz Ali

		Abdelmawgoud; Chaouki Ghenai; Abdelaziz Elgamouz; Muhammad Tawalbeh; Bassam Abdullah Ayed Khuwaileh		
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 Almehdi Sameh Solieman Ihsan Shehadi Ismail Saadoun	2019/202	Prof. Ali Alkiblawi
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	2020	Hussain Alawadhi

		Raed A. Al-Qawasmeh		
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Department of Applied Biology				
No.	Group Title	Group Members	Start Date	Coordinator
1	Gene Editing & Therapy	<ul style="list-style-type: none"> • Dr. Khalid Bajou, (College of Science) • Dr. Hany Omar, (College of Pharmacy) • Dr. Firdos Ahmad, (College of Medicine) • Dr. Bassam Mahboub, (College of Medicine) • Prof. Raafat A.E. El-Awady, (College of Pharmacy) 	September 2019	Dr. Mohamed Rahmani
2	Bioinformatics and Functional genomics	Dr. Hassen Hadj Kacem	2018	Prof. Rifat Hamoudi
3.	Environmental & Chemical Biology	Prof. Ali El-Keblawy, Prof. Ismail Saadoun, Dr. Kareem A. Mosa	2016	Prof. Ali El-Keblawy
4.	Human Genetics and Stem cells	Dr. Hassen Hadj Kacem Dr Muhammad Nasir Khan Dr Khalid Bajou Dr Amir Khan Dr Abdullah Al Mutery	2015	Dr. Abdelaziz Tlili

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		

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.	Talk on "Rapid Diagnostics for COVID-19" by Prof Jackie Ying: https://www.arabscienceweek.com/talks/rapid-diagnostics-for-covid-19/?ah=5Nh9ewcO	Seminar	International	19-8-20	UoS

2.	Webinar on Animal Biotechnology	Webinar	International	27-8-2020	International
3.	<u>2nd UoS Annual Strategic Conference. Oct. 8th, 2020</u>	Conference	National	8-10-20	UoS
4.	<u>WETEX 2020 Dubai Solar Show</u>	Conference	National	10-2020	National
5.	<u>Research Workshop: "Pre-Award: Research Funding Opportunities: Grants & Guidelines"</u>	Workshop	Local	11-10-2020	
6.	<u>COVID-19/SARS-COVID-2 Research. Oct. 15th, 2020</u>	Seminar	National	15-10-20	UoS
7.	<u>CoSci Strategic Planning & Annual Report</u>	Meeting	Local	25-10-2020	CoSci
8.	-				
9.	"Science Frontiers" <u>Spectroscopies with Synchrotron Radiation & their Applications for Energy Sciences. Dr Zahid Hussein (Berkeley, USA). Nov. 11, 2020</u>	Seminar	International	11-11-20	UoS
10.	Women in Researc Workshop: How to Supervise PhD Students	Workshop	Local	15-11-2020	UoS
11.	11 th Biotechnology Students' Exhibition	Exhibition	Local	4-12-2020	DAB, UoS
12.	Women in research Workshop: Writing effective Research Proposals	Workshop	Local	7-12-2020	UoS
13.	<u>All Research Café Wokshops</u>	Seminar	National	7-2-2021	UoS
14.	<u>4th Sharjah International Conference on Arabs & Muslims History. April 4th-6th, 2021</u>	Conference	International	4-4-2021	
15.	<u>A rapid electrochemical test for porosity in electroless nickel coatings on carbon</u>	Seminar	National	18-2-2021	

	<u>steel substrates". Dr. Ayssar Nahle. April 18th, 2021</u>				
16.	<u>Kareem A. Mosa.</u> Presented a workshop titled "Steps for successful scientific research", organized by Wasit Research Center, Ministry of Education, Sharjah, UAE.	Workshop	National	24-11-2021	High school Students and teachers, Ministry of Education, Sharjah, UAE.
17.	<u>Kareem A. Mosa.</u> Presented a seminar titled " Green synthesis of silver nanoparticles using UAE native plants and their biological activities ", organized by the Research Institute of Sciences & Engineering, University of Sharjah, UAE.	Seminar	Local	21-1- 2021	UoS faculty members, researchers, and graduate students
18.	<u>Kareem A. Mosa.</u> Presented a workshop titled "Steps for successful scientific research", organized by Wasit Research Center, Ministry of Education, Sharjah, UAE.	Workshop	National	24-1-2021	High school Students and teachers, Ministry of Education, Sharjah, UAE.
19.	<u>Kareem A. Mosa.</u> Presented a seminar titled " Green synthesis of silver nanoparticles using UAE native plants and their biological activities ", organized by the Research Institute of Sciences & Engineering, University of Sharjah, UAE.	Seminar	Local	21-1-2021	UoS faculty members, researchers, and graduate students

20.	Ali El-Keblawy: Presented a seminar titled "Plant diversity in the UAE: challenges and conservation priorities.	Seminar	UAE community	7-2-2021	Members of Natural History group and all publics
21.	VCRGS Wrokshop: From University to Real World Impactful and Patentable Research	Workshop	Local	14-3-2020	UoS

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. Sara Sultan Entitled	UoS. Co. Sci. DAB	The roles of miR-22-3p in the differentiation of Telomerase-	September 27, 2020

			Transformed Mesenchymal Stromal Cells into Adipocyte	
2	Ms. Muna Abdallah Al-Hammadi	UoS. Co. Sci. DAB	Production and characterization of silver nanoparticles from <i>Tephrosia apollinea</i> living plants under drought stress	Nov. 8, 2020
3	Ms. Zamzam Yousef Ismail	UoS. Co. Sci. DAB	Genetic Analysis of A UAE Family with Severe Metabolic Acidosis	Nov. 29, 2020
4	Ragad H. K Albogami ,Maryam A. Al Mahamid ,Khulood S. Bilal Mubarak Almheiri ,Suad J. Mubarak Bilal Alfalasi ,Fatima R. Rahma Abdalla Alowais	UoS. Co. Sci. DAB	Undergraduate Research project presentation “The Effect of Selected Peptides on Thrombosis “supervised by Dr.Khalid Bajou	Dec 28, 2020
5	Mariam A. AbdallaSahako Aldhuhoori, Alyaa S. Mohamed Saeed Almehrzy ,Sarah M. S Alhajjaj ,Ala Y. Mohamed hajjalreyes Alawadhi ,Maitha H. Juma Humaid Almarashda ,Maitha R. Jaffar Mirza Ali Alhaj Nasser ,Nesrine Darwich	UoS. Co. Sci. DAB	Undergraduate Research project presentation “Identification of a Mutation Responsible for G6PD Deficiency in a UAE Family”supervised by Dr.Abdelaziz Tiili	Dec 28, 2020

6	Shaikha Ali Hussain Alhosani ,Abrar Mohamed Alkokhardi ,Hassan Saeed Alshamsi ,Shaikha Ali Khalifa Alsuwaidi		Undergraduate Research project presentation “Comparative Analysis of Differentially Expressed Genes in the UAE Desert Plant <i>Salsola Drummondii</i> Under Heat Stress” supervised by:Dr.Kareem Mosa	Dec 28, 2020
7	Prof. Elsiddig Ahmed Elmustafa Elsheikh	UoS. Co. Sci. DAB	And within yourselves. Do you not see? وَفِي أَنْفُسِكُمْ أَفَلَا تُبْصِرُونَ	Feb. 14, 2021
8	Dr. Mona Hassuneh	UoS. Co. Sci. DAB	An Insight into Covid-19 Vaccines	Feb. 28, 2021
9	Dr. Khalid Bajou	UoS. Co. Sci. DAB	The Biochemistry of Cancer	April 18, 2021
1	Mrs. Mariam Ahmed Abdelnour	UoS. Co. Sci. DAB	Identification and characterization of <i>Prosopis</i> species in UAE using molecular, morphological and seed biology traits	May 10, 2021
1	Mrs. Fatma AlGhalban	UoS. Co. Sci. DAB	Comparative anticancer activities of <i>Ficus carica</i> and <i>Ficus salicifolia</i> latex in MDA-MB-231 cells	May 18, 2021

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	Barycentric interpolation of interface-solution for solving	27 /11/2020

		Mohammed 6, Morocco	SPDEs on non-overlapping sub- domains with additive multi-noises	
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 of the Jordan-Moore-Gibson- sThompson equation	10-14 Jan 2021
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/University 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 Simultaneous Autoregressive Model	February 16, 2021
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	25	0	25	76
Chair	3	0	2	4	7

Professional Membership	09	15	9	5	37
TPC	0	0	0	0	0
TV/Newspapers	1	10	3	5	13
Judge	22	0	9	2	14
Speaker	5	1	3	13	9
Editor	18	15	50	1	80
Organizer	04	14	0	6	30
Consultations	0	1	0	0	1
Professional Meeting	0	0	0	0	0
External Committees	0	3	9	2	21
Student Extra-Curricular Activities	12	18	4	18	52
Total	94	102	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 Filler for Linear Low Density and High-Density Polyethylene,	Journal paper	02/02/2021	Journal of Materials Science and 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 Manuscript Number: MOLLIQ-D-20- 01312	Journal	January 3, 2021	Journal of Molecular Liquid

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: "Synthesis of Salicylate and Salicylamide Alcohols for the	Journal	March 27, 2021	Oriental Journal of Chemistry

	Preparation of Phosphorodiamidates and Ifosfamide Prodrugs” Ashutosh Pal OJC-13580-21			
10	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" by: N. Arrousse, R. Salim, F. Benhiba, E.H. Mabrouk, A. Abdelaoui, F. ElHajjaji, I. Warad, A. Zarrouk, M. Taleb Manuscript Number: MOLLIQ-D-21-01924	Journal	April 4, 2021	Journal of Molecular Liquid
11	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: Title: “Detailed experimental and theoretical evaluations of the adsorption mechanism of novel -1,2,3-triazolyl) uridine nucleosides against the corrosion of mild steel in HCl”. Maryam Chafiq, Abdelkarim Chaouiki*, Rachid Salghi, Hamza Tachallait, Khalid Bougrin, Ismat H. Ali, Mohamed Siaj	Journal	April 24, 2021	Materials Chemistry and Physics

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

	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>)	Journal	March 24, 2021	<i>Organic & Medicinal Chemistry International Journal, (OMCIJ)</i>
16	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>)	Journal	March 31, 2021	<i>Annals of Chemical Science Research (ACSR).</i>
17	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>).	Journal	March 31, 2021	<i>Surfaces and Interfaces</i>
18	Mr. Ibrahim Abdel-Rahman reviewed a paper for the " <i>Annals of Chemical Science Research (ACSR)</i> ". "Applications of			

	Targeted Protein Degradation in Drug Discovery". 9-04-2021. Manuscript ID: ACSR-21-RW-558. (<i>Annals of Chemical Science Research (ACSR)</i>).	Journal	April 9, 2021	<i>Annals of Chemical Science Research (ACSR)</i> .
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 Fe ₃ O ₄ @BA@PANI composite as photo catalyst the degradation of for methyl orange (MO)	Dr Kamrul Hasan	May 4, 2021	Senior chemistry Students.

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 (U17105568) Salim S. Sultan Saif Alteneiji	Dr. Ayssar Nahlé	May 4, 2021	Senior chemistry Students.

	(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: Prof Raed Al-Qawasmeh	May 5, 2021	Chemistry Students. Staff and faculty

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 the Environmental department in Sharjah Municipality.	Dr Abdelaziz	Jan. 21, 2021	Members of 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	Dr. Ayssar Nahlé	On-going	International Scientific Community

	a division of Hindawi Publishing Corporation, a pioneering open access scholarly publisher with over 300 academic journals. (December 4, 2011- Present).			
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 the United States. (November 7, 2018- Present).	Dr. Ayssar Nahlé	On-going	International Scientific Community
8.	Member, Editorial Board in “ Materials Science: Advanced Industrial Materials ” Journal.	Dr. Ayssar Nahlé	On-going	International Scientific Community

	Whioce Publishing Pte. Ltd., Singapore. (December 4, 2018- Present). Member, Editorial Board in “ Insight-Corrosion Science & Protection ” Journal . (December 4, 2018- Present).			
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</i> (OMCIJ)”	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 “ <i>The Chemistry Senior Research Project Presentations</i> ” 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 = 27)				
1.	Ring-forming plants in the Egyptian deserts	Journal paper Reviewer Dr. Ali El-Keblawy	Jan 26, 2021	Flora
2.	Effects of heavy grazing and long term grazing enclosure on soil seed bank	Journal paper		Flora

	characteristics in the Bijar protected grasslands	Reviewer Dr. Ali El-Keblawy		
3.	Floristic composition and analysis of spontaneous vegetation of Oued Chabro	Conference paper Reviewer Dr. Ali El-Keblawy	May 2021	The 4th Conference of the Arabian Journal of Geosciences
4.	Soil seed bank dynamics in semi-arid calcareous lands	Conference paper Reviewer Dr. Ali El-Keblawy	October 2020	Flora
5.	Plant biodiversity in Algerian semi-arid region: importance and modeling of regeneration methods for overexploited plants	Conference paper Reviewer Dr. Ali El-Keblawy	May 2021	The 4th Conference of the Arabian Journal of Geosciences
6.	IOT sensor solar stations for remote crop monitoring	Conference paper Reviewer Dr. Ali El-Keblawy	May 2021	The 4th Conference of the Arabian Journal of Geosciences
7.	Changes in photosynthetic pigments content in non-transformed and AtCKX transgenic centaury (Centaurium	Conference paper Reviewer	May 2021	Botany

	erythraea Rafn.) shoots grown under salt stress in vitro	Dr. Ali El-Keblawy		
8.	Evaluation of Scientific Products/Work for the promotion file of an Associate Professor, King Abdulaziz University, Saudi Arabia	Promotion file External reviewer Dr. Ali El-Keblawy	Feb 2021	King Abdulaziz University
9.	Evaluation of Scientific Products/Work for the promotion file of a Full Professor, Jazan University, Saudi Arabia	Promotion file External reviewer Dr. Ali El-Keblawy	November 2020	Jazan University
10	Assessment of Promotion Application to Associate Professor Rank. Dept. of Chemistry. Khalifa University, Abu Dhabi	Prof. Ismail Saadoun	Nov. 11 th , 2020	National Community
11	The role of <i>Pvgstu</i> gene in tobacco response to combinations of heat and drought stresses	Journal paper Reviewer Dr. Kareem Mosa	August 2020	Biology
12	Genome-wide <i>in silico</i> Identification and Characterization 1 of Sodium-Proton (Na ⁺ /H ⁺) Antiporters in Indica Rice	Journal paper Reviewer Dr. Kareem Mosa	September, 2020	Plant Gene

13	Upregulation of LeNRAMP3 and LeFER genes in tomato plant treated with silicon oxide nanoparticles plays a vital role in cadmium tolerance	Journal paper Reviewer Dr. Kareem Mosa	October, 2020	Journal of Plant Interaction
14	Ecofriendly synthesis, characterization, enhanced functionality and biological evaluation of silver nanoparticles based on <i>Coriander sativum</i>	Journal paper Reviewer Dr. Kareem Mosa	November, 2020	International Journal of Nanomedicine
15	DNA barcoding of some medicinally important plant species of Lamiaceae family in India	Journal paper Reviewer Dr. Kareem Mosa	December, 2020	Molecular Biology Reports
16	Heavy metal stress influence the andrographolide content, phytochemicals and antioxidant activity of <i>Andrographis paniculate</i>	Journal paper Reviewer Dr. Kareem Mosa	January, 2021	Plant Science Today
17	Combining single-molecule sequencing and next-generation sequencing to provide insight into the complex response of <i>Iris halophila</i> Pall. to Pb exposure	Journal paper Reviewer Dr. Kareem Mosa	March, 2021	Industrial Crops and Products
18	With No Lysine Kinases: The Key Regulatory Networks and Phytohormone Cross-talk in Plant Growth, Development and Stress Response	Journal paper Reviewer Dr. Kareem Mosa	May, 2021	Plant Cell Reports

19	Association of ACTN3 R577X (rs1815739) polymorphism with sports performance: a meta-analysis	Journal paper Reviewer Dr Hassen Hadj Kacem	Feb, 2021	Sports Health
20	Effect of sulfoxaflor exposure on key biological traits and detoxification enzyme of <i>Harmonia axyridis</i>	Journal paper Reviewer Dr. Muhammad Nasir Khan	November 2020	Brazilian Journal of Biology
21	Environmental and human iodine and selenium status: lessons from Gilgit-Baltistan, North East Pakistan	Journal paper Reviewer Dr. Muhammad Nasir Khan	January 2021	Environmental Geochemistry and Health
22	The complete mitochondrial genome of <i>Sardinops sagax</i> (Jenyns, 1842) (Clupeiformes: Clupeidae) and phylogenetic analyses of Sardines	Journal paper Reviewer Dr. Muhammad Nasir Khan	January 2021	Mitochondrial DNA part B
23	Antimicrobial Activity and Functional Genes of Actinobacteria from Coastal Wetland	Journal paper reviewer Dr. Ban Al-Joubori	July 27, 2020	Journal of applied Microbiology
24	Antifungal activity of marine-derived actinomycetes against <i>Talaromyces marneffe</i>	Journal paper reviewer Dr. Ban Al-Joubori	Aug. 23, 2020	Journal of applied Microbiology

25	Actinomycetes as Continued Source of New Antibacterial Leads	Book chapter reviewer Dr. Ban Al-Joubori	Oct. 26, 2020	In <i>Antibacterial Drug Discovery to Combat MDR</i>
26	Optimization of tetracycline production in <i>Streptomyces hygroscopicus</i> S91	Journal paper reviewer Dr. Ban Al-Joubori	Oct. 2, 2020	Journal of applied Microbiology
27	Cinnamaldehyde as an alternative compound against multidrug-resistant <i>Acinetobacter baumannii</i> based on its antimicrobial potential and additional properties	Journal paper reviewer Dr. Ban Al-Joubori	May 23, 2021	Journal of applied Microbiology
CHAIR (Total = 0)				
28				
Membership (Total = 7)				
29	National Center for Biotechnology/Jordan (www.ncb.gov.jo),	Prof. Ismail Saadoun		National Community
30	Jordan Society for Scientific Research (SFSR)	Prof. Ismail Saadoun		National Community
31	Royal Society of Biology (Fellow) 2012-2014.	Prof. Ismail Saadoun		Int. Community
32	Founder member of the UAE stem cells society.	Dr. Amir Khan		

33	Member in the “American Society of Plant Biologists”, USA	International society Dr. Kareem Mosa	2012- present	Scientific community
34	Member in the "International Phytotechnology Society", USA	International society Dr. Kareem Mosa	2018-present	Scientific community
35	Member of The American Chemical Society (ACS) chapter in the UAE	International Dr. Hassen Hadj Kacem	2018-present	Scientific Community
TPC (Total = 0)				
36				
TV/NEWSPAPERS (Total = 3)				
37	Sharjah TV-interview about Ozone day	Ali El-Keblawy	16/09/2020	UAE Community
38	Abu Dhabi TV-interview about smart agriculture	Ali El-Keblawy	21/01/2021	UAE Community
39	Sharjah TV-Documentary about medicinal plants	Ali El-Keblawy	In preparation	UAE Community
JUDGE (Total = 5)				
40	I have participated as a judge in Rashid Bin Humaid Award for Culture and Science-37”.	Prof. Ismail Saadoun, Award	August 5 th , 2020	National Community
41	I have participated as a judge in evaluating a promotion of Faculty member to a rank of Professor in Dept. of Agricultural Biotechnology in	Prof. Ismail Saadoun, Promotion	July, 16 th , 2020	Int. Community

	Palestine Technical University-Khadoury/Palestine			
42	I have participated as a judge in evaluating a book chapter for promotion in Umm Al Qura University/SA	Prof. Ismail Saadoun, Publication	Oct. 20 th , 2020	Int. Community
43	Comparative Judgment (CJ) Orientation: EmSAT Biology (ACH)	Prof. Ismail Saadoun, Exam	Oct. 15 th , 2020	National Community
44	Comparative Judgment (CJ): EmSAT Biology (ACH)	Prof. Ismail Saadoun, Exam	Feb. 17 th , 2021	National Community
SPEAKER (Total = 4)				
45	Best Teaching Practices: Education and Technology. "What Technology can and cannot do to Education".	Online workshop Dr. Ban Al-Joubori		CoSci. faculty
46	Best Teaching Practices: Course management: Documentation & Task Stream: DAB: Online lab delivery experience	Online workshop Racha Alkhoury	December 10, 2020	CoSci. faculty
47	Best Teaching Practices: Course management: Documentation & Task Stream: DAB: managing grade center	Online workshop Uzma Inayat	December 10, 2020	CoSci. faculty
48	MOE Workshop: Online Lab teaching	Online workshop Dr. Ban Al-Joubori, Racha Al-Khoury, Tasnim Obaid, Islam EL-Tayeb	January 21, 2021	DAB, Co. Sc. And Biology teachers in local high schools
EDITOR (Total = 11)				

49	Journal of Applied Microbiology	Prof. Ismail Saadoun, Handling Editor	Jan. 2019- Present	Int. Community
50	Letters in Applied Microbiology	Prof. Ismail Saadoun, Handling Editor	Jan. 2019- Present	Int. Community
51	Letters in Applied Microbiology	Prof. Ismail Saadoun, Senior Editor	May 2021	Int. Community
52	Associate Editor of BMC Ecology, BioMed Central (UK), Impact Factor = 2.9 (https://bmcecol.biomedcentral.com/about/editorial-board)	Prof Ali El-Keblawy	Present	BioMed Central (UK),
53	Editorial Board Member, Land Degradation and Development, Wiley publication, Impact Factor = 3.8 (http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-145X/homepage/EditorialBoard.html)	Prof Ali El-Keblawy	Present	Wily publication
54	Editorial Board Member, Flora, ELSEVIER publication, Impact Factor = 1.6	Prof Ali El-Keblawy	Present	ELSEVIER
55	Editorial member of the Book: Genitourinary cancer: Molecular diagnostic immunological implications: genetic aspect & viral therapy. Elsevier Academic Press 2021	Prof. Ihsan Mahasneh	Present	ELSEVIER
56	Editorial member of the Book: Oncogenic viruses: Fundamental &	Prof. Ihsan Mahasneh	Present	ELSEVIER

	applications. Volume 1 & 2; Elsevier Academic Press 2021			
57	Editorial Board Member, Current Nutraceuticals; ISSN: 2665-9786	Dr. Kareem Mosa	Present	International scientific community
58	Editorial Board Member, Plant Science Today (PST); ISSN: 2348-1900	Dr. Kareem Mosa	Present	International scientific community
59	Editorial Board Member, Journal of Phytology; ISSN: 2075-6240	Dr. Kareem Mosa	Present	International scientific community
ORGANIZER (Total = 5)				
60	Work Stress Management, the Center for Continuing Education and Professional Development	Prof. Siddig El Sheikh	1/31-2/3/2021	Online: Open to participants from inside and outside the University
61	The 4 th International Conference on the History of Arabs and Muslims in Sciences	Online International Conference, Member: Racha Al-Khoury,	April 4-6, 2021	International, National and Local community
62	11 th Biotechnology Students' Exhibition	Online Exhibition Chair: Dr. Ban Al-Joubori. Members: DAB Lecturers	December 4, 2020	Local community, DAB and Co.Sc.

63	Alumni Gathering: Let's Get Together	Online event DAB Lecturers	April 8, 2021	International and Local community
64	MOE Workshop: Online Lab teaching	Online workshop Dr. Ban Al-Joubori	January 21, 2021	DAB, Co. Sc. And Biology teachers in local high schools
External Committees (Total = 1)				
65	External examiner- M.Sc. thesis: Molecular and Physiological Assessment of Salinity Stress Tolerance in Transgenic Arabidopsis Lines Expressing a <i>Solanum Tuberosum</i> Ribosome-Binding Protein (2020). Msc program in Molecular Biology & Biotechnology. Department of Biology, College of Science, United Arab Emirates University, UAE	Dr. Kareem A. Mosa	November 15, 2020	Graduate students

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.				
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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
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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
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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 (ICHS21) 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 UOS.
	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

Orientation and Advising Day - لقاء تعريفى

24:51

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

Hshyar Abdullah

Abdelaziz Soufyane

Mohammad Saleh Bataineh

SM

Salim Messaoudi

Nouar Tabet

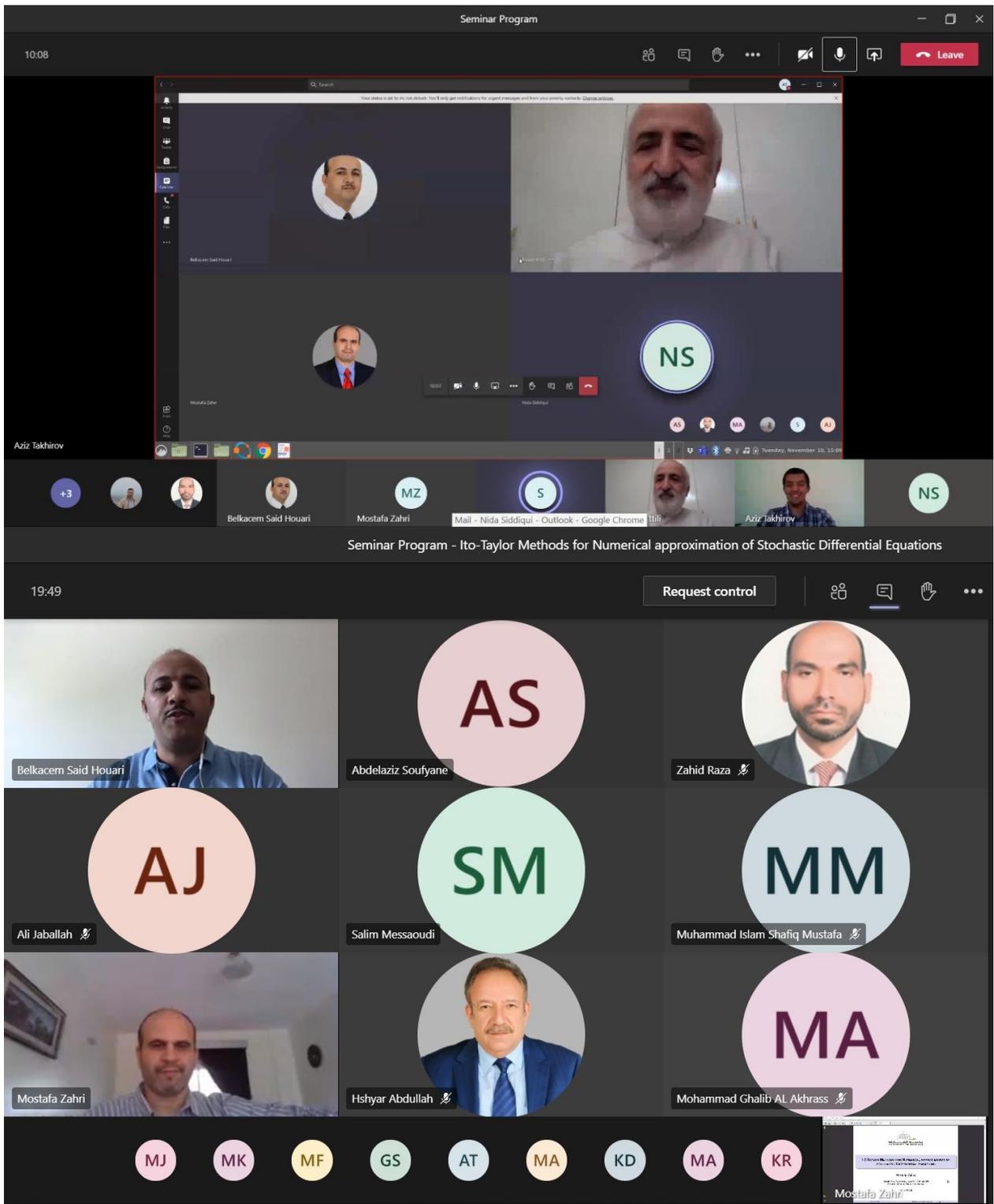
Basem Attili

Khalil Al. Dosary

Minaa Farhan

Zahid Raza

MZ SS MA MA GS MK S KR S





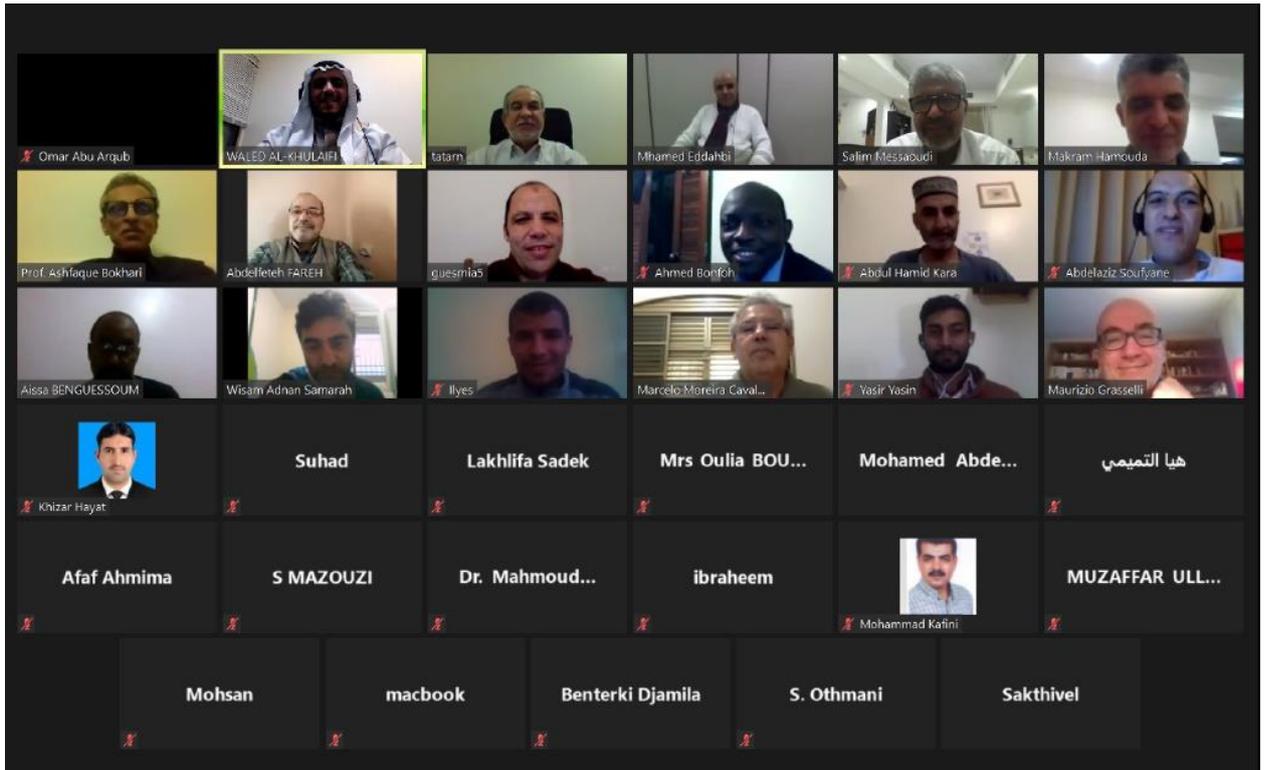
الإذاعة الثقافية · Follow

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 Biology at a glance

Biotechnology Students Orientation Day (Fall 2020/2021)




University of Sharjah
College of Sciences

Department of Applied Biology

Invites you to the

**Biotechnology Students Orientation Day
(Fall 2020/2021)**

To be held on Sunday September 20, 2020 at 12:00 PM
via **MS Team**

Join us by clicking on the following link:
[Link](#)

Time	Session
12:00 -12:05	Welcome- Chair of Students' Affair Committee
12:05 -12:10	Welcome-Dean of College of Science
12:10 -12:35	Welcome- Chairman of Applied Biology Department & Short Introduction about DAB
12:35- 12:55	Platform for DAB Faculty
12:55 -1:30	Open Discussion for Questions by students

Achievements Until Now

- Submission of the B.Sc. Biotechnology Program file to UAA/MSPE.
- Dept. 2017-ABET Accredited (6 Years-2020/Sept. 2019)
- Successful online delivery of UG and graduate courses along with practical courses.
- Graduation of **578** undergraduate students and **7** Master students.
- Traditional Organization of the Biotechnology Students Exhibition each academic year (**11th Anniversary/Dec. 2020**).

DAB 11th Exhibition - 2020



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

11th Biotechnology Students' Virtual Exhibition

Date: Wednesday November 25th, 2020
Time: 09:00 AM – 16:00 PM
Venue: Zoom
<https://zoom.us/j/99163579636>

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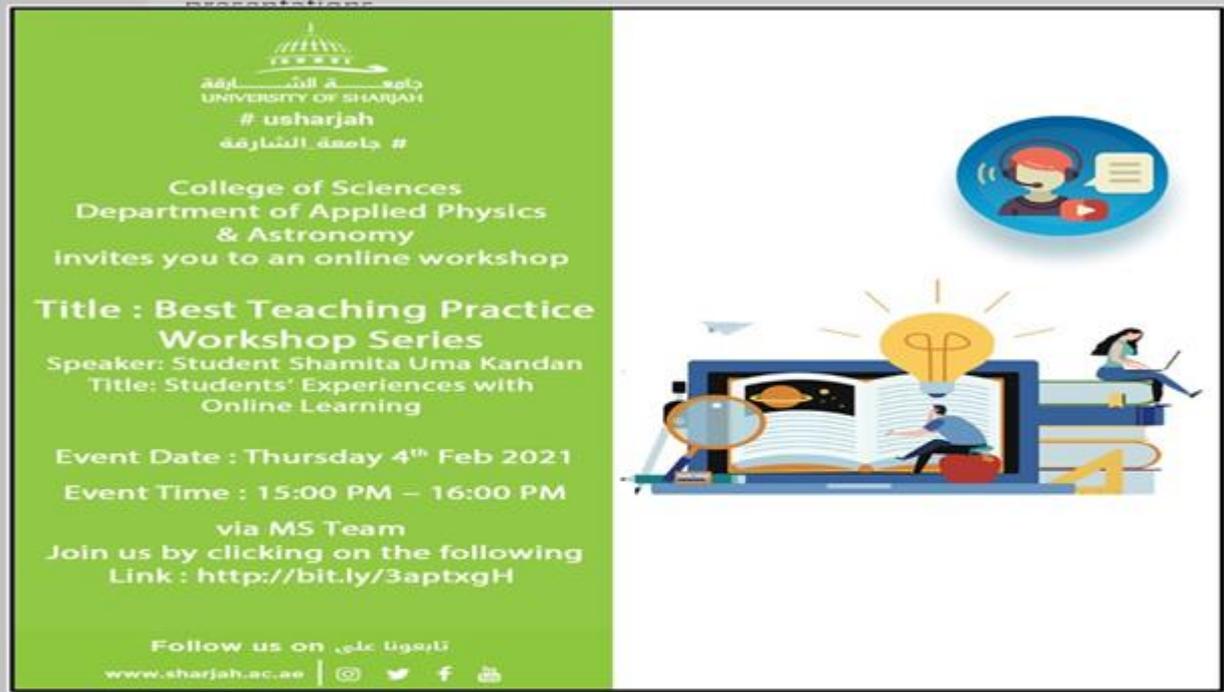


Posters Session
Breakout Rooms
9:30 – 11:00



Presentations
Main Room
11:00 – 16:00

Best Teaching Practice Workshop Series given by Biotechnology Students under title “Students’ Experiences with Online Learning”



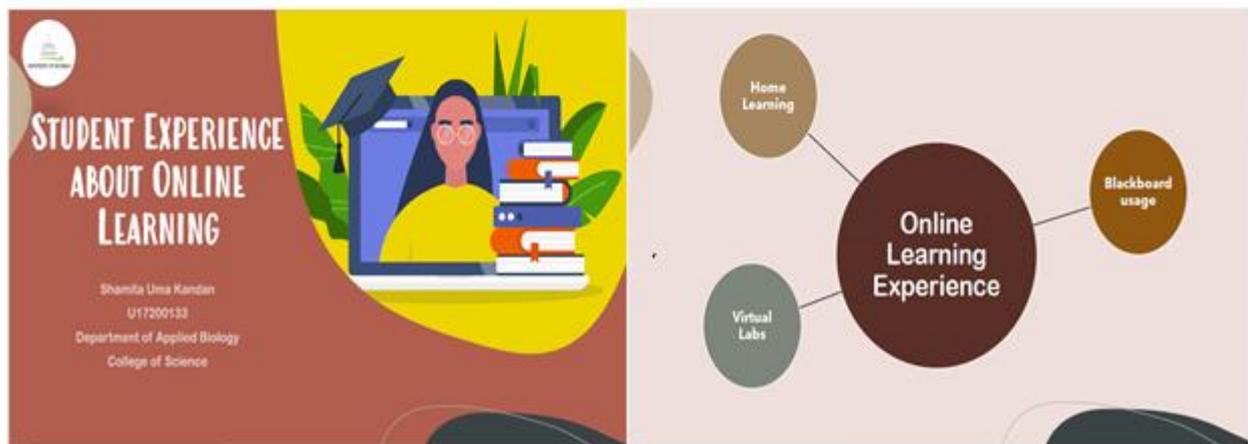
جامعة الشارقة
UNIVERSITY OF SHARJAH
#usharjah
#جامعة الشارقة

College of Sciences
Department of Applied Physics
& Astronomy
invites you to an online workshop

**Title : Best Teaching Practice
Workshop Series**
Speaker: Student Shamita Uma Kandan
Title: Students’ Experiences with
Online Learning

Event Date : Thursday 4th Feb 2021
Event Time : 15:00 PM – 16:00 PM
via MS Team
Join us by clicking on the following
Link : <http://bit.ly/3aptxgH>

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**STUDENT EXPERIENCE
ABOUT ONLINE
LEARNING**

Shamita Uma Kandan
U17200133
Department of Applied Biology
College of Science



```
graph TD; A((Online Learning Experience)) --- B((Home Learning)); A --- C((Virtual Labs)); A --- D((Blackboard usage));
```

Best Teaching Practice Workshop Series given by Biotechnology Students under title "Students' Experiences with Online Learning"

3) VIRTUAL LABS

POSITIVES

- Typed lab reports
- Lab simulations for extra practice
- Recorded experiment videos for reference

NEGATIVES

- Inability to perform experiments manually
- Limited room to learn from mistakes

CONCLUSION



+

↓

HYBRID LEARNING
EFFICIENT & HAPPY
LEARNING EXPERIENCE

STUDENTS' EXPERIENCES WITH ONLINE LEARNING

Being able to communicate with instructors and other students make students more active participants during the courses

HELLO!

Najma Nur
Department of Applied Biology
Biotechnology (3rd Year)

Long hours spent on screen and work overload

DAB Alumni: Let's Get Together 2021

جامعة الشارقة
UNIVERSITY OF SHARJAH
usharjah
جامعة الشارقة

The Department of Applied Biology
at the University of Sharjah,
College of Sciences

Invites their Dear
Alumni, Undergraduate and Graduate students to the

DAB Alumni: Let's Get Together

Which will be held via ZOOM

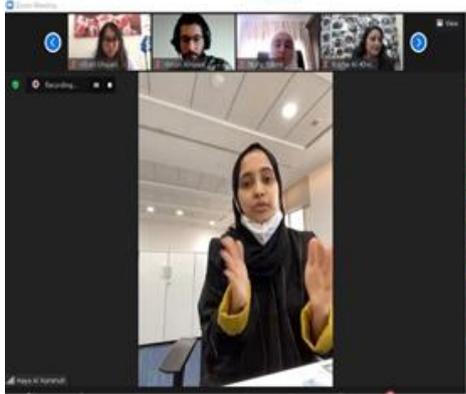
Event Date : Thursday April 8th, 2021
Event Time : From 3:00 PM to 5:00 PM
(UAE time)

Link :Join Zoom Meeting
<https://sharjah-ac-ae.zoom.us/j/98459155300>

تابعونا على
www.sharjah.ac.ae

**-LET'S CELEBRATE MEMORIES
WHILE BUILDING NEW ONES-**

Alumni



Alfah Ghauri

» Name: Salim Ghazi Muhammad Alkheyri
 » Rank: Sergeant
 » Forensic Scientist in Sharjah Forensic Lab
 » Qualifications:
 » A Bachelor Degree in Biotechnology from Sharjah university (2016)
 » A Master of science degree in Forensic Science from King's College London (MSc) (2017)
 » worked in Abu Dhabi Police HQ, Forensic Evidence Department, Biology department, custody division (2016-2017)
 » Working in Sharjah Forensic Lab from 2017 till now

DAB Alumni: Let's Get Together 2021



DAB Students' Research Project Defense Day

Fall & Spring, 2020-2021



Downregulated transcripts with functional association to heat stress vs control plants of *Salsola arbuscula* (L'Her). The transcripts were selected from the list of top hundred upregulated associated transcript.

Transcript ID	Log2 fold change	Gene Description	Function
TENDY_290302	16.2072	Protein associated with essential protein (Epinephrine-dependent)	Leaf senescence
TENDY_290304	7.9876	21.2 kDa class I heat shock protein (Hsp) (Hsp90 superfamily)	Regulate protein aggregation and protect against cell stress
TENDY_290305	7.9840	17.8 kDa class I heat shock protein (Hsp) (Hsp90 superfamily)	HSP independent chaperone that prevents aggregation and protects against cell stress, induced by heat, osmotic, or acid shock
TENDY_290306	6.7840	18.7 kDa class I heat shock protein (Hsp) (Hsp90 superfamily)	HSP independent chaperone that prevents aggregation and protects against cell stress, induced by heat, osmotic, or acid shock
TENDY_290307	6.6494	18.2 kDa class I heat shock protein (Hsp) (Hsp90 superfamily)	HSP independent chaperone that prevents aggregation and protects against cell stress, induced by heat, osmotic, or acid shock
TENDY_290308	6.0349	17.4 kDa class I heat shock protein (Hsp) (Hsp90 superfamily)	HSP independent chaperone that prevents aggregation and protects against cell stress, induced by heat, osmotic, or acid shock

جامعة الشارقة
 UNIVERSITY OF SHARJAH
 # usharjah
 جامعة الشارقة

University of Sharjah
 College of Sciences

The Department of Applied Biology
 Would Like to Invite You to Attend

"Students' Research Projects Defense"
 Fall 2020-2021

Event Date : Wednesday, 23rd, Dec 2020
 Event Time : 09:30 AM - 12:00 PM
 via MS Team

Join us by clicking on the following
 Link : <https://zoom.us/j/94068419226>

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جامعة الشارقة
 UNIVERSITY OF SHARJAH
 # usharjah
 جامعة الشارقة

College of Sciences

The Department of Applied Biology
 would like to invite you to attend

**Biotechnology Students
 Research Projects Defense**
 Spring 2020-2021

Event Date : Thursday, May 27th, 2021
 Event Time : 9:00 AM to 2:00 PM

Via Zoom
 Meeting Link:
<https://sharjah-ac.ae.zoom.us/j/97167378595>

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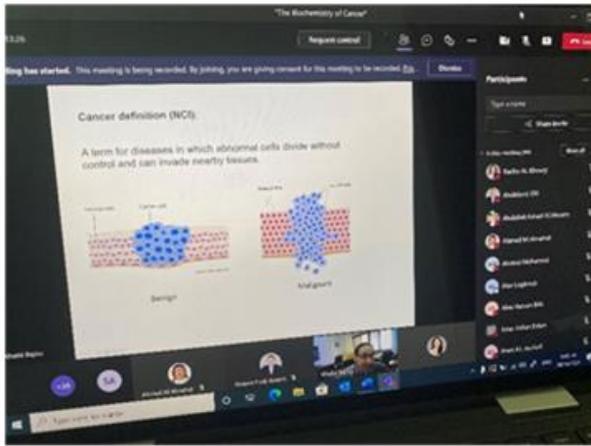


DAB Faculty Seminars

 <p style="text-align: center;">  جامعة الشارقة UNIVERSITY OF SHARJAH # usharjah # جامعة الشارقة </p> <p>The Department of Applied Biology College of Sciences invites you to attend a seminar</p> <p>Entitled : And within yourselves. Do you not see? by Prof. Elsiddig Ahmed ElSheikh</p> <p>Event Date : Sunday Feb 14th , 2021 Event Time : 12:30 PM – 01:30 PM</p> <p>Online - MS Teams Join us by clicking on the following</p> <p>Link : http://bit.ly/2LAbRxy</p> <p style="text-align: center;"> تابعونا على www.sharjah.ac.ae  </p>	 <p style="text-align: center;">  جامعة الشارقة UNIVERSITY OF SHARJAH # usharjah # جامعة الشارقة </p> <p>The Department of Applied Biology at the University of Sharjah, College of Sciences</p> <p>Cordially Invites You to a Seminar</p> <p>“The Biochemistry of Cancer” by Dr. Khalid Bajou</p> <p>Which will be held via MS Team</p> <p>Event Date : Sunday April 11th, 2021 Event Time : From 11:00 AM - 12:00 PM</p> <p>Link : https://bit.ly/3wDMbM2</p> <p style="text-align: center;"> تابعونا على www.sharjah.ac.ae  </p>
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<p style="text-align: center;">  جامعة الشارقة UNIVERSITY OF SHARJAH # usharjah # جامعة الشارقة </p> <p style="text-align: center;">College of Sciences</p> <p>The Department of Applied Biology invites you to attend a seminar</p> <p>Entitled: “ Vaccines: An Insight Into COVID-19 Vaccines ”</p> <p>Dr. Mona Rushdi Abdel Hafez Hassuneh</p> <p>Event Date : Sunday Feb. 28th, 2021 Event Time : 11:00 AM – 12:00 PM</p> <p>via MS Team Join us by clicking on the following Link : http://bit.ly/3ujFloG</p> <p style="text-align: center;"> تابعونا على www.sharjah.ac.ae  </p>	
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DAB Postgraduate Defense Seminars



Mrs. Fatma Mousa AlGhalban

Entitled

Rachia Al Khoury

From: Rachia Al Khoury
Sent: Sunday, September 27, 2020 6:01 PM
To: Rachia Al Khoury
Subject: For Sarah Sultan Alomran M.Sc. in Biotechnology Defense

Dear DAB faculty and M.Sc. students

The Department of Applied Biology would like to invite you to the M.Sc. in Biotechnology defense session entitled:

The roles of miR-22-3p in the differentiation of Telomerase-Transformed Mesenchymal Stromal Cells into Adipocyte

Presented by

Sarah Sultan Alomran

Under the supervision of
Dr. Amir Khan

Sunday, 04-10-2020
14:00 – 15:00
Via Microsoft Teams ([Link](#))

All faculty members, teaching or supervising M.Sc. students, are kindly asked to send the invitation to our M.Sc. students.

Rachia Al Khoury
Lecturer
College of Sciences | Applied Biological Dept.
جامعة الشارقة
UNIVERSITY OF SHARJAH
P.O. Box 27127 Sharjah, UAE | www.sharjah.ac.ae

"Comparative anticancer activities of *Ficus carica* and *Ficus salicifolia* latex in MDA-MB-231 cells"

Under the supervision of
Dr. Muhammad Nasir Khan

On Sunday, May 23, 2021

Mrs. Mariam Ahmed Abdelnour AbdelRahman AlJasmi

Entitled

"Identification and characterization of *Prosopis* species in UAE using molecular, morphological and seed biology traits"

Under the supervision of
Prof. Ali El-Keblawy and Dr. Kareem Mosa

On Sunday, May 23, 2021
at 10:00 AM
via MS Teams.

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



جامعة الشارقة
UNIVERSITY OF SHARJAH

Gaffar Attaelmanan
Professor
Chair of the Department of Applied Physics and Astronomy
College of Sciences
T: +97165050363 | F: +97165050352
P.O.Box: 27272 Sharjah, UAE | W: www.sharjah.ac.ae





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Member Presentations: Innovations in "Remotely" Designing for Learning

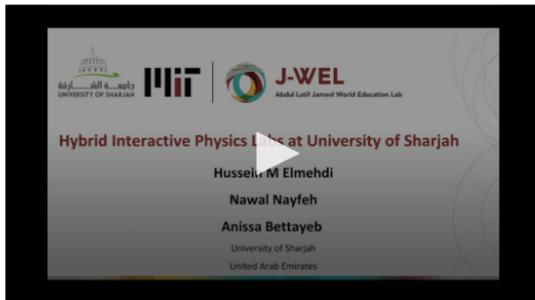
[J-WEL Connections - October 2020](#) > [Program](#) > Member Presentations: Innovations in "Remotely" Designing for Learning

Session Instructions:

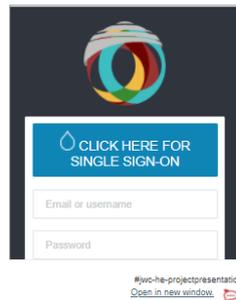
- ▶ Instruction 1. Prior to the scheduled session, watch the Prescreening Video.
- ▶ Instruction 2. During the session, we will engage in a question and answer session with the presenter.

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

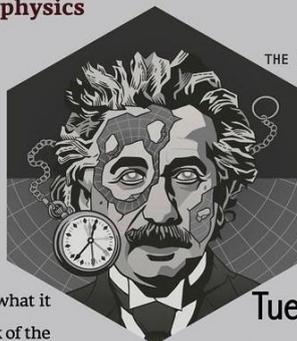
As Seen From The Primary Fields of physics



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.

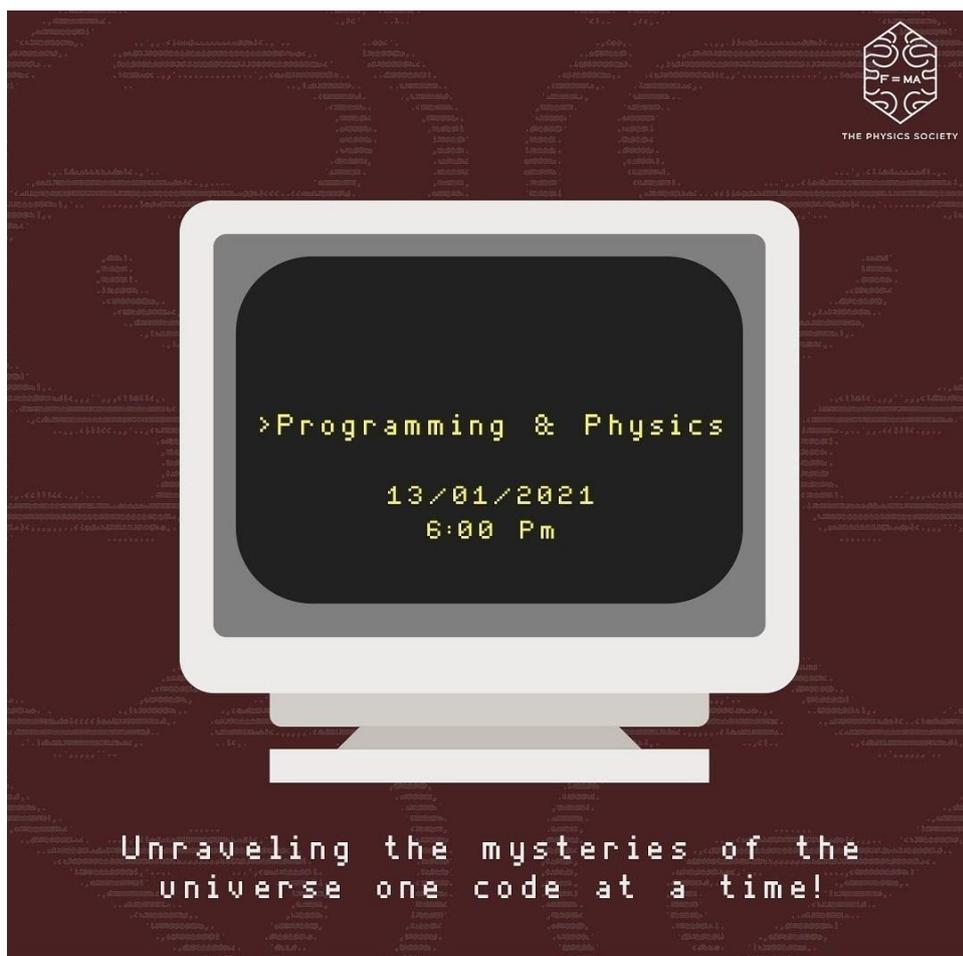
A chance to help and be helped!

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:

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

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.

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

DM us for more inquiry!



