

**UAEU**



جامعة الإمارات العربية المتحدة  
United Arab Emirates University

**Annual  
Report**  
for the Academic Year  
2016/2017





**H.E. Dr. Ali Rashid Al Nuaimi**  
Chancellor of the United Arab Emirates University



**Prof. Mohamed AlBaili**  
VICE CHANCELLOR OF UAEU

## Message from the Vice Chancellor

United Arab Emirates University (UAEU) aspires to be the University of the Future in the country and the region, having students of all ages in higher education turn to us for their studies. In that sense, we are aiming to rank among the top 20 academic institutions in Asia and the top 200 in the world. The academic year 2017-18 has shown that UAEU is attaining regional and global eminence by conducting cutting-edge research in areas of strategic difference to the region and the world.

This year saw a great advancement in our rankings, an increase in our collaboration agreements, organizing and participating in high-level conferences, and building valued new links with distinguished academics and researchers. UAEU's 2017-18 Annual Report presents and details these significant contributions to the advancements of knowledge through research, which demonstrates our focus on a strategy that identifies niches for research and development. With education increasingly growing as a vital pillar for the Middle East, UAEU plans to become the national hub in research and entrepreneurship, as well as the primary destination for collaboration with governmental and non-governmental agencies, organizations, industry and international agencies.

We plan on focusing more on STEM subjects, as per the requirements of the future job market, and strategically select academic programs that are sustainable and relevant to the region. Education will prove crucial in equipping young students with the skills they need in the 21st century, including emotional intelligence and critical thinking. We intend to attain our top rankings, while improving as we go along.

Our aim is to be known as a world-class university, providing only the best education has to offer to students. In that regard, we plan to adopt and constantly revise learning approaches by embracing and devising technology that facilitates delivery and assimilation of knowledge, while promoting curiosity and critical thinking among our graduates.

The UAEU will maintain its core values and heritage while redefining its mission. It will reposition itself as per the market and student needs, and evolve into an institution that prepares future leaders in diverse fields. The future does not wait – it is constantly at our doorstep and we must ensure to take action today to be able to be prepared accordingly for tomorrow. We are on the right track and we will continuously improve to continue following that path and ensure continued success in the near future.

**Prof. Mohamed AlBaili**  
VICE CHANCELLOR OF UAEU





## Brief background about Al Ain and the positioning of Al Ain within Emirate of Abu Dhabi, in addition to the role of UAEU in the “Plan Al Ain 2030”.

The prosperity, harmony and development that characterizes the United Arab Emirates today; led by President H.H. Sheikh Khalifa Bin Zayed Al Nahyan the Ruler of Abu Dhabi Emirate, and his fellow members of the Supreme Council of Rulers of the Seven Emirates; is very much thanks to the late Sheikh Zayed’s role both prior to the formation of the UAE Federation and in the nearly 33 years that followed until his death in November 2004.

Al Ain is an ancient city, central to the cultural heritage of the UAE and also the birthplace of President H.H. Sheikh Khalifa Bin Zayed Al Nahyan. It remains close to the heart of the royal family and the people of UAE. For more than 5,000 years, it has been a welcome and a cool-retreat from the surrounding desert and coastal emirates. Known as the “Garden City of the Gulf” it is built around nurturing oases irrigated by an ancient ‘falaj’ water system.

It is the second largest city in the Abu Dhabi Emirate and the fourth largest city in the UAE. Al Ain is located approximately 150km inland from the capital city of Abu Dhabi and the popular tourist destination of Dubai. Al Ain has the country’s highest number of Emirati nationals and is developing as a tourist destination with the dry desert air making it a welcome retreat from the coastal humidity of the larger cities.

Its attractions include Jebel Hafeet, a 1,340 meter mountain, which dominates the surrounding area. It is popular to visit the mineral springs at its base and to drive to the mountaintop at sunset. Al Ain Wildlife park, which provides entertainment and learning experiences in a natural outdoor environment and is home to the Sheikh Zayed Desert Learning Centre which was the first building in the United Arab Emirates to earn a rating of five pearls in sustainability accreditation at the Design & Construction stage, where the application of exacting standards set by the Abu Dhabi Urban Planning Council. The centre also received a LEED Platinum certification, (Leadership in Energy and Environmental Design). Other places of interest include the Al Ain Oasis in the city center, and other oases dotted around the

area, offering cool retreats in the middle of the summer heat. Additionally, tourists can enjoy Al Jahili Fort, the Camel Market, many well-maintained parks, a heritage village, the Al Ain National Museum, the Al Ain Palace Museum, several restored forts and the Hili Archaeological Park which dates back to the Bronze Age.

Three years ago, the city of Al Ain joined the prestigious list of UNESCO World Heritage Sites for its rich cultural heritage including the dome-shaped tombs of Hafeet Mountain, the man-made ‘falaj’ water system and the city’s lush oases.

A cultural retreat, Al Ain also hosts annual events including the Al Ain Classical Music Festival. The city is a popular tourist destination with first class hotels, a golf resort, shopping malls, restaurants, a water-adventure park and Hazza Bin Zayed football stadium. ‘Plan Al Ain 2030’, the urban structure framework plan designed by Abu Dhabi Urban Planning, will help Al Ain evaluate and respond to current and future developmental needs and will guide further planning for new development. It is projected that the city will grow over the next 13 years and planning is in place to accommodate population growth while avoiding over-development, depletion of ground water resources, or encroachment on natural habitats or heritage sites. This is essential in order to preserve the natural assets that give the city its unique character.



# About The University



## Basis of Authority

The United Arab Emirates University was established by the then President of the UAE, the late Sheikh Zayed Bin Sultan Al Nahyan, by virtue of Federal Law 4 of 1976. UAEU is a research-based institution providing research solutions to support the UAE and, through its global partners, the wider world.

## University Council

The UAEU Council is the governing body responsible for the management of academic and administrative affairs.

## Colleges and Departments

UAEU has nine Colleges which conduct teaching at undergraduate and postgraduate levels while pursuing research and scholarly investigation. The University College offers a preparation program that aims to help students make a successful transition from high school to university study, providing developmental help to students who need additional instruction in Arabic, English and mathematics.

UAEU colleges provide comprehensive opportunities for education and subsequent careers to about 14,000 students, offering a full range of undergraduate and graduate degree programs. The university offers 50+ Bachelor's degrees; 30+ Master's programs; a Doctor of Medicine (MD); a Doctor of Pharmacy (Pharm.D); a Ph.D program and a Doctor of Business Administration (DBA).

## University Management

The Vice Chancellor is responsible for the management of the university, as well as the overall direction of planning and academic and institutional development, international relations, information technology and media and communications.

There are four Deputy Vice Chancellors: Academic Affairs (Provost); Research and Graduate Studies; Finance and Administrative Affairs (Secretary General), and Student Affairs and Enrollment. They are responsible for the various colleges, undergraduate studies, research and graduate studies, the library, student affairs, enrollment, career placement and other services which support the academic mission of the university. These include human resources, financial affairs, procurement, facilities management and general services.

The Deans are the heads of the academic Colleges, which themselves are groupings of academic disciplines. Academic staff in these colleges teach undergraduate and post-graduate students and conduct research and scholarship.

## Research Emphasis

Research is the engine that drives advances in technology, agriculture, medicine, law, the economy and science. Research also drives the policies that underpin growth in knowledge-based economies. Therefore, UAEU has a strong research mission.

## Student Life

Students from all seven emirates plus 61 other countries enrich and enliven the campus and classrooms. The 5% of students who live on campus enjoy a full range of organized campus activities and events that add a unique educational value and vibrant dimension to each respective student's academic life. Classrooms and laboratories feature state-of-the-art equipment and instructional technology to enhance student learning and contribute to academic success.

## Graduates

The 65000 UAEU graduates contribute to their communities and provide leadership throughout the UAE, the Gulf region and, increasingly, the global community. UAEU is committed to the human development goals and cultural values expressed by Sheikh Zayed in establishing UAEU as the national university in 1976.

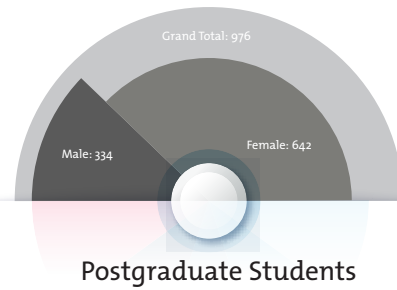
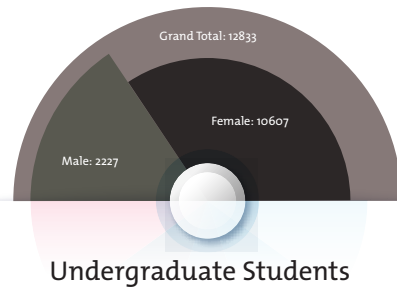
## National Staff

The university is proud to have 152 Emirati national faculty. This represents 16% of faculty. In addition, Emirati nationals occupy over 69% of staff positions.

## Wide Range of Bachelor's Degree Programs

UAEU recognizes its responsibility to the community by making knowledge and educational resources readily accessible. Close to 636 faculty, 91 Instructors and 234 University Foundation Program (UFP) Lecturers all add a unique.

# Enrollment Statistics



Degree	Gender	National	Children of National Women	GCC	Other Arab	Others	Grand Total
<b>Undergraduates</b>	Male	1377	193	47	487	123	2227
	Female	8955	545	190	793	124	10607
<b>Undergraduates Total</b>		10331	738	237	1280	247	12833
<b>Graduate Studies</b>	Male	116		8	99	41	264
	Female	325		20	128	47	520
<b>Graduate Studies MS Program Total</b>		441		28	227	88	784
<b>Doctorate</b>	Male	36		4	14	16	70
	Female	52		7	35	25	119
<b>PhD Total</b>		88		11	49	41	189
<b>Doctor Pharmacy</b>	Female				3		3
<b>Doctor Pharmacy Total</b>					3		3
<b>Grand Total</b>		10861	738	276	1559	376	13810

# Highlights 2016/2017

2015

## September

College of Engineering is re re-accredited by the Accreditation Board for Engineering and Technology (ABET) in the United States till 2022.



The Chemistry Department of the College of Science at the United Arab Emirates University has earned re-accreditation from the Royal Society of Chemistry in the UK for another five years



## October



During the university's annual convocation, HE Dr Ali Rashid Al Noaimi, UAEU Chancellor says that Faculty make a difference and their variety of backgrounds and cultures have contributed to transforming the university into a leading research university and producing the leaders of the future.





UAEU ranked by QS as #6 in the Arab Region



United Arab Emirates University organizes the 3rd Symposium of Urban Planning



Forty-two faculty researchers from various colleges published in leading academic journals around the world – such as Lancet, Middle East Critique, Scientific Reports among others were honored during UAEU’s innovation week.

## November



UAEU Center for Public Policy and Leadership launches Human Development Report UAE 2017 project with the United Nations Development Program



UAEU organizes the Educational Outcomes Assessment Conference on November 14-15, 2016

## December



The “Educational Creative Chemistry Laboratory” is opened.



Shamsa Al Mazrouei, a master student at the College of Information Technology win the GITEX Student Lab competition in Dubai.



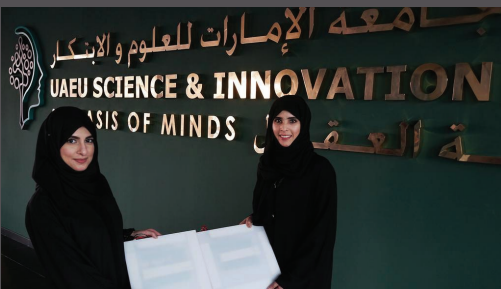
# January



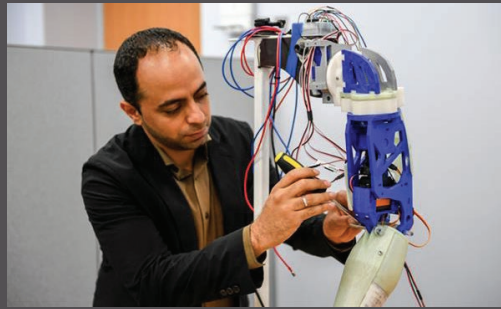
College of Science honors distinctive faculty members and researchers as part of the Happy College program



Degree Works, a comprehensive electronic program for Academic Advising is launched



A team of four students from the College of Engineering creates an Energy generating carpet.



UAEU Professor Developing 3D-Printed Prosthetics, Which Will allow Amputees to Make Their Own Customisations

# February



The United Arab Emirates University and the National happiness and Positivity Programme establish the "Emirates Center for Happiness Research" in the university

# March



The UAEU and the Ministry of Energy sign a Memorandum of Understanding.

# April



The UAEU, Telecommunications Regulatory Authority and Huawei Tech sign a Memorandum of Understanding.

# May



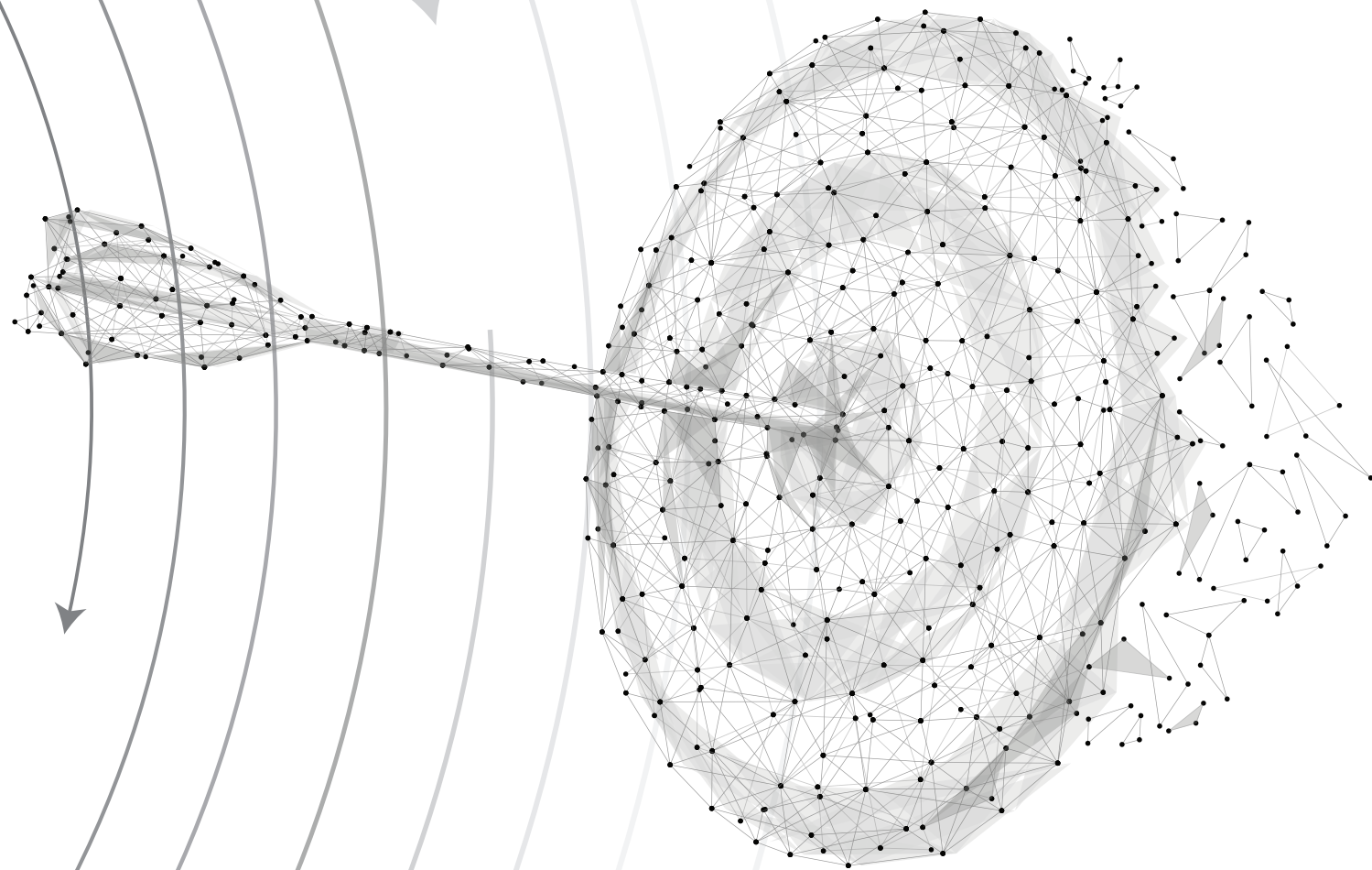
United Arab Emirates University one of fifteen founding members of the Asian Universities Alliance (AUA), launched at Tsinghua University, China.



# Goal 1

Prepare graduates to be pioneers and leaders in their areas of specialization.

To prepare students for productive careers and make UAEU graduates sought after as employees in the UAE government, private and non-profit sector.



## Enhancement of Undergraduate Placement

The Department of Curriculum and Instruction in collaboration with foundation program and the University College established English Improvement Program for undergraduate students. This program focused on ameliorating the graduates' English proficiency level in order to help them secure a better job in their future.

The Department of Psychology in collaboration with the Continuing Education Center (UAEU), offered a school psychology diploma for school psychologists working for Abu Dhabi Education Council of (ADEC). Three courses were offered during the fall semester and four were offered in spring semester 2017. The department successfully completed the school psychology diploma which is the first in the country and the Gulf region.

## Information Resources

The philosophy department co-organised the second joint UAE symposium in Social Robotics together with NYUAD. It featured a multidisciplinary program bringing together renowned engineers, roboticists, and social scientists from the UAE and from across the globe to discuss the state of the art in social robotics. Students had the opportunity to meet the experts, learn about their research, and discuss the latest innovations in the field.

The political sciences department organized Political Awareness Forum in its fifth year in November 2016. The forum was attended by Her Excellency the Minister of State Ministry of National Council Affairs and His Excellency the UAEU Chancellor. It was meant to provide students with the knowledge they needed to understand current local and regional issues. The event attracted participants from many other universities and colleges within the UAE.

## Undergraduate and Postgraduate Education

The Psychology department proposed a new program in positive psychology as a minor.

The Curriculum and Instruction Dept. accepted 11 new PhD applicants to join the program during the fall semester of 2017, in addition more than 6 master students in all areas of specialization at the at the Dept. and the process of accepting is still open, which may accept more master students in all specialization.

## Academic Quality Assurance

The History and Archaeology Department programs were reviewed last year by a team of experts and recommendations were made. An implementation plan was set up by the Department to respond to those recommendations.

## Internships and Student Experiences:

Two students from the Translation Studies Department (Sara Hamad Al Badi and Heba Mohamed Ghanayem) participated in the exchange program with Hankuk University of Foreign Studies (HUFS), South Korea in Fall 016.

The Department of History and Archaeology is keen to provide students with hands-on experience, which will develop student's skills in the application of theory to practical work situations and will develop skills and techniques directly applicable to their specialization. It will enable them to be well-prepared to enter into full-time employment in their area of specialization upon graduation. Archaeology students gain their practical knowledge through visiting a number of archaeological sites and museums in addition to the internship given in Al-Ain Museum. Tourism students started their internship during this academic year and they have been placed in various organizations such as the Shaikh Zayed Grand Mosque, Rotan Hotel, Al-Ain Zoo and Sharjah Commerce & Tourism Development Authority.

Providing students with real work experience through training them in many organizations such as: Ministry of Foreign Affairs, Ministry of Interiors, Emirates Center for Strategic and Political Research, Emirates Center for Policy, Ministry of Presidential Affairs, Prime Minister Office, Federal Nation Council, State Ministry of National Council Affairs, United Nations Office for the Coordination of Humanitarians Affairs, and UAEU Center for Public Policy and Leadership.

## Student Achievements and Successes:

The first graduation of a PhD Candidate, in the history of the English Literature Department. Muna Al Badaai completed her BA in English Literature in 2010 and joined the interdisciplinary PhD program in "Technology, Language and Society" during the following spring term. In April 2017, she successfully defended her dissertation titled "Situating African American Muslim Slave Narratives in American Literature,".



The Curriculum and Instruction Department the first two Ph.D. student graduation in the history of the College of Education

Four female students of the College of Engineering at United Arab Emirates University (UAEU) won first place in the Ideathon competition, held in Abu Dhabi, on November 10, 2016. The Ideathon competition was organized by the joint cooperation of the UAE Space Agency and other partners in Japan such as the Japan Space Forum, Agency of Natural Resources and Energy, the University of Tokyo and Japan Space System, which are all part of the global space congress. Several universities from across the UAE (MASDAR, AUS, Khalifa and UAEU) participated in the competition which is an extension of the capacity-building program.

Moza Al Hammoudi's publication of the peer-reviewed essay "Literary and Psychological Journey into Lee Brightman's Consciousness." Based on Ms. Al Hammoudi's recognition at the Fourth UAE Undergraduate Research Competition, this essay, first developed as Capstone project, appeared in the International Journal of Scientific and Technology Research in June 2016 ( Two students from the English Literature Major received recognitions as "Writer of the Month," a new award designed by the university's Student Academic Success Program. While one of these students, Salha Zain Al Saeedi, is a senior, the second one, Alyazia Al Blooshi, is new in the program. Both are members of the newly established Readers Club.

Student Nouf Albaloushi also won the Referee's Prize in the "2017 Korean Speech Contest for University Students" held in Al Salsun Faculty at Ain Shams University in Cairo, Egypt on May 4, 2017.



## Extra-Curricular Programs:

In collaboration with students' clubs, the Translation Studies Department organized several events including lectures, exhibitions, workshops and panel discussions.



Korean exhibition showing Korean traditional food and dresses



Students' contributions in the French Day

20 Translation Capstone students participated in the Scientific Day organized by the CHSS on 04 May 2017. Their research posters included various topics such as ethics in translation, challenges of court interpreting, translating idioms in context, human vs automated interpreting, translating Hadith, and subtitles of animation movies.

Translation students Sara Ghazal and Islam Al Rawi participated in the "UAEU Undergraduate Student Research Conference 2017" with two research posters. Their topics were on the language of promotional texts in translation and the use and perception of machine translation by UAEU students.

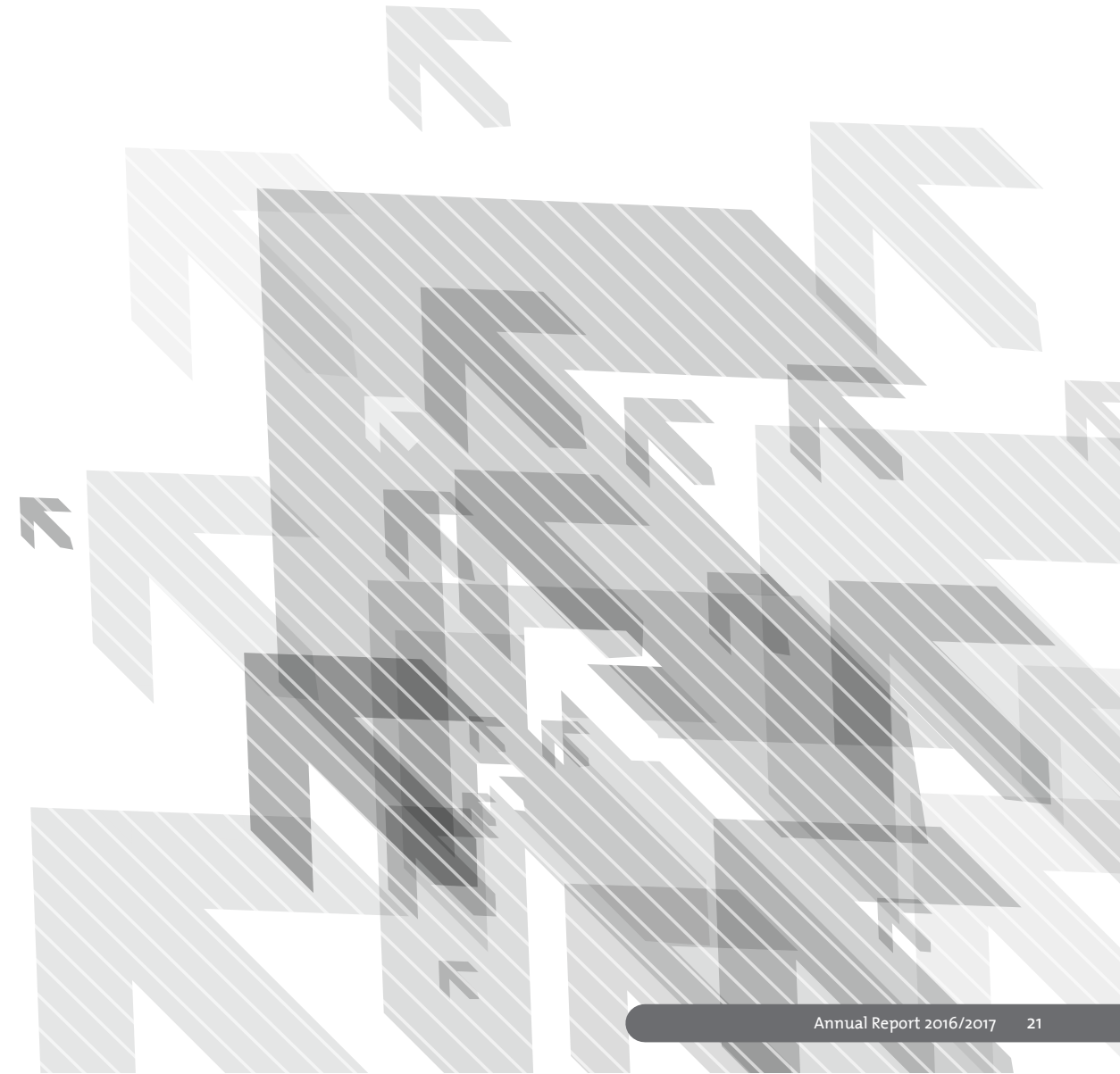
The Students' Linguistics Club and continued to hold events for students. Held two events Spring 2016: Orientation to the Linguistics Club & Students' Visit to the EEG Lab.

The courses offered to the students ensure that they develop systematic knowledge and understanding of their discipline appropriate to their level of study. Outcomes are specified at the course level, mapped to course components and are assessed resulting in developing discipline specific knowledge and capabilities within them which is crucial in order for graduates to have a firm foundation in their future chosen profession. Communication skills were also emphasized more which is the fundamental generic skill needed to attain employment and to engage in professional written, oral and interper-

sonal communication with colleagues, clients and the general public. This helps in the digital literacy underpins research, regardless of discipline, and is an essential graduate skill for effective participation in employment and all aspects of life.

Another outcome was developing critical thinking as it is a transferable skill that is needed for every career. Analysis of a problem identifying important factors and variables, evaluation of information acquired are some of the key aspects taught to them. A well-developed disposition towards strategic problem solving is a highly valued graduate attribute for prospective employers in a diverse and changing world. Problem-solvers are quick to adapt to change and can incorporate new perspectives that may lead them to self-management and team work efforts which were highlighted in many of the projects that they completed successfully.

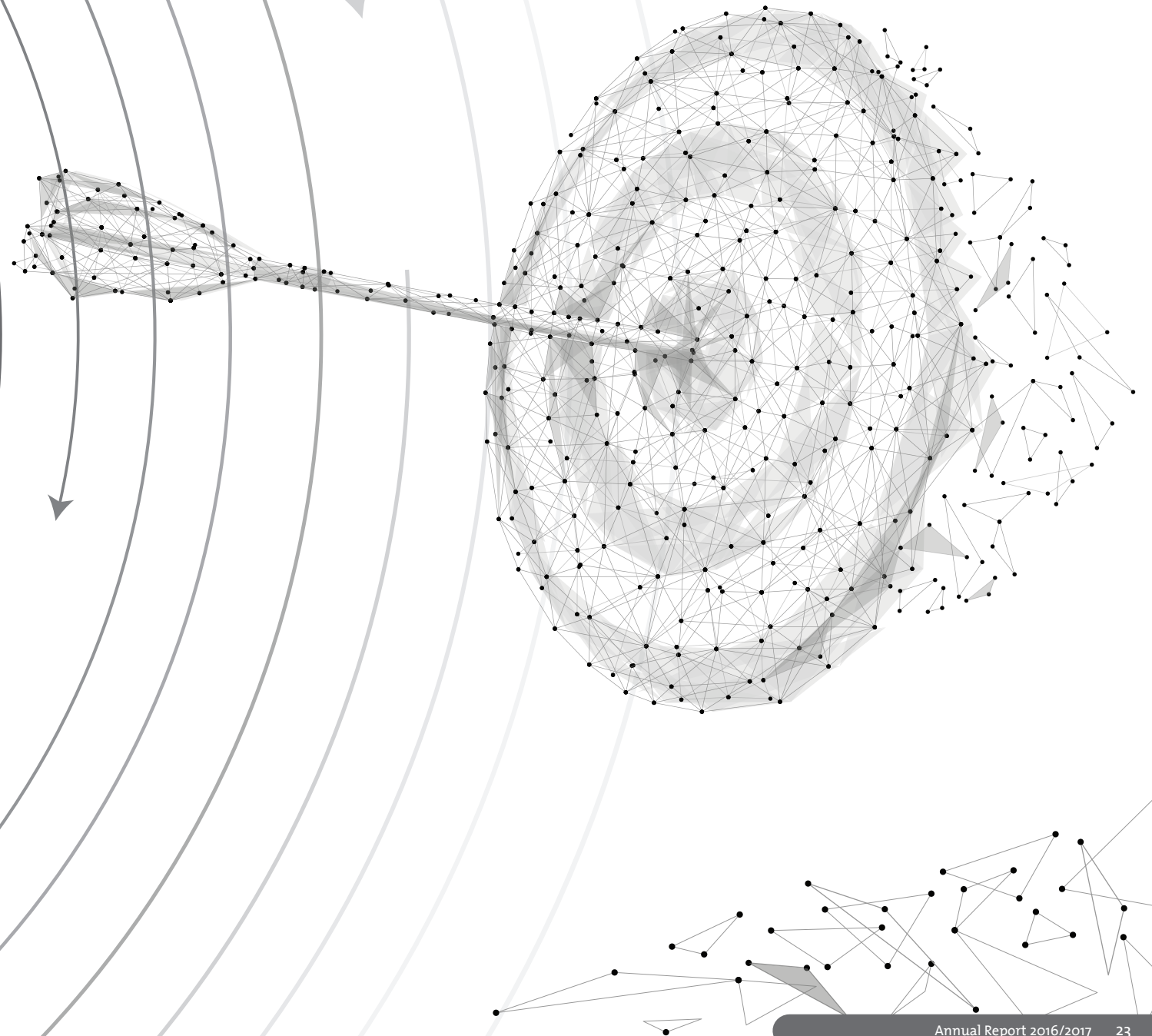
This program was also validated by more than 70 important events and workshops organized by Department of Geography and Urban Planning, CHSS in UAEU, as well as by local and international participations.



# Goal 2

**Develop scientific research capacity and innovation in areas of national and regional importance**

To develop and support concentrations of research activity, especially in areas of national and regional importance, and to involve undergraduate and graduate students in advancing this research.





## UAEU Patents

In the area of Intellectual Property and since starting the filing process at UAEU, 257 patent applications have been filed in different jurisdictions. Up to December 2017; UAEU has obtained 69 patents granted under its name. Currently there are about 7 inventions licensed/ commercialized to national and international industries.

257

United Arab Emirates University organizes the 3rd Symposium of Urban Planning

53

New Patent Applications filed in 2017

69

Patents Granted (up to Dec 2017)

18

Granted Patents in 2017 (as shown below):

2017 Patents Granted in					
	Title	Country	Inventor	Co-Inventor/s	College
1	Alpha-Synuclein Antibodies and uses thereof	US	Omar Agnaf		CMHS
2	Alpha-Synuclein Antibodies and uses thereof	Japan	Omar Agnaf		CMHS
3	A Device for Performing Multiple Optical Operations in Communication Network	US	Usama Al Khawaja		COS
4	Red Palm Weevil Sensing and Control System	US	Yousef Haik		COE
5	Lower Extremity Vehicle Navigation Control System	JAPAN	Reem Al marzouqp	Hazem Elshorbagy, Husam Haboush, Yousef Haik	COE

6	Serviceable Bioreactor	US	Ali Abdullah Alnaqbi	Abdel-Hamid Mourad	COE
7	Date Pit Composition for the Treatment of Animals	US	Ahmed Soliman Hussein	Ibrahim Hassan Belal, Salem Rashed ali Alyalyali, Khaled Abas el Tarabily	CFA
8	Semiconducting Polymer	China	Yousef Haik	Ahmad Ibrahim Ayeshe, Mahmood Allawy Mohsin	COE
9	Method and System for Forecasting Future Events	US	Jose Lopez	Zayed Mohammed Almesabi, Dmitry Efimov, Mohammed Abdulla Al Shamisi, Mohammed Gharib AlSaedi, Ahmed AlMuharami, Saeed Rashed AlShemali Musallem	CIT
10	Substituted Pyridine Derivatives Useful in the Treatment of Cancer	UK	Ibrahim Mahmoud Abdou	Alaa Eldin Abdel Aziz Salem, Abdu Adem, Hussein F Zhodi, Hany Abdel Aziz El Deab	COS
11	Process for the Preparation of a Product Comprising Modified Sulfur	Europe	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
12	Method for Treating Particulate Material	GCC	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
13	System for Contacting Gases and Liquids	US	Muftah El-Naas		COE
14	Automatic Firing Apparatus and Method	US	Ibrahim Al Abdouli	Mohammad Arbabi, Saleh Al Marri, Basel Al Sayyed	COE
16	Automatic Firing Apparatus and Method	US	Ibrahim Al Abdouli	Mohammad Arbabi, Saleh Al Marri, Basel Al Sayyed	COE
17	A system for converting thermal energy into electrical energy	GCC	Yosef Al Jasem	Thies Thiemann	COS
18	Self-Powered Vibrational Energy Harvesting	US	Mahmoud Al Ahmad	Baker (Mahmmad (KU	COE

Number of Patents Filed			Number of Patents Granted		
Years	2016	2017	Years	2016	2017
No. of Patent application filed	38	53	No. of patents granted	15	18

### 2016 Patents Granted in

	Title	Country	Inventor	Co-Inventor/s	College
1	Henna Application Device and Method	US	Effat Takaleh		COE
2	Biodiesel Production	US	Sulaiman Al-Zuhair	Ali Hassan Al Marzouqi, Isameldin Hashim & Hanifa Eassa Taher	COE
3	A Process and System for the Treatment of Industrial and Petroleum Refinery Wastewater	Canada	Muftah Hassan El-Naas	Sulaiman Abdulrazak Al-Zuhair	COE
4	Method for Purifying Lactoferrin	US	Hassan Mohamed Hassan Abdalla		CFA
5	Apparatus and Method for Energy Harvesting	US	Mahmoud Al Ahmad	(Irfan Saadat (Masdar	COE
6	Apparatus and Method for Virus Detection	US	Mahmoud Al Ahmad		COE
7	Semiconducting Polymer	Japan	Yousef Haik	Ahmad Ibrahim Ayesh, Mahmood Allawy Mohsin	COE
8	New use of Surfactant	Europe	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
9	New use of Surfactant	Japan	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
10	Thermal Insulation Material Made of Date-Pits	US	Basim Moh'd Ismail Abu-Jdayil	Abdel-Hamid Ismail Mourad	COE

11	Use of Surfactant in the preparation of modified Sulfur and Sulfur Cement	US	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
12	A Manipulator for Surgical Tools	US	Basem Fayez Yousef		COE
13	Fluid Pumping System and Method	US	Fathi M. Allan		COS
14	Method for treating particulate material	Canada	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
15	Method for treating particulate material	Europe	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE

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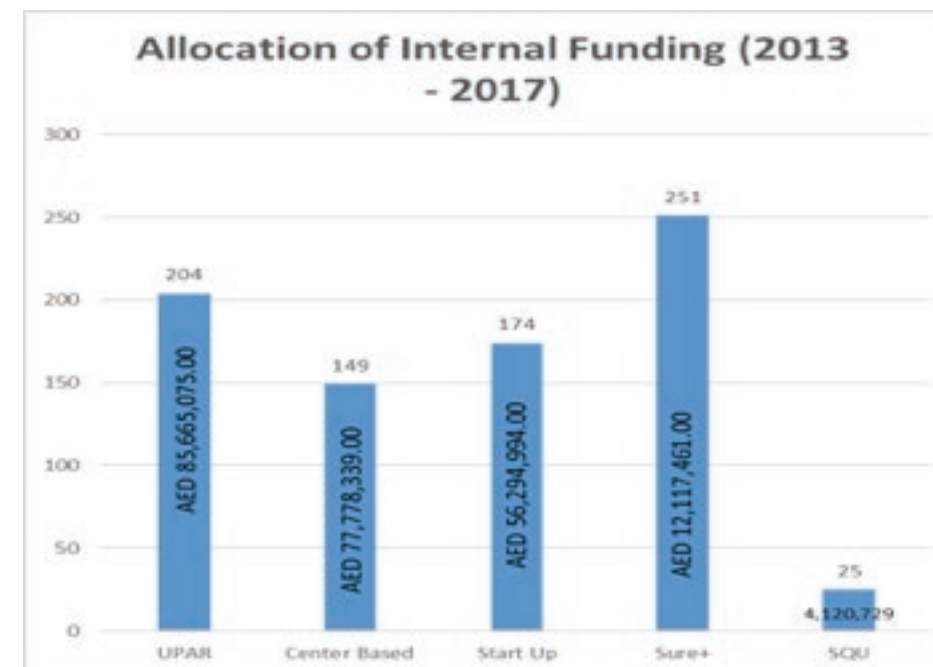
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12	METHOD FOR TREATING PARTICULATE MATERIAL	GCC	Abdel-Mohsen Onsy Mohamed	Maisa Mabrouk El Gamal	COE
13	System for Contacting Gases and Liquids	US	Muftah El-Naas		COE
14	Automatic Firing Apparatus and Method	US	Ibrahim Al Abdouli	Mohammad Arbabi, Saleh Al Marri, Basel Al Sayyed	COE
15	Safety Helmet and Vehicle System Circuit and Device	US	Basel Alsayyed Ahmad	Ahmed Altelbani	COE
16	Automatic Firing Apparatus and Method	US	Ibrahim Al Abdouli	Mohammad Arbabi, Saleh Al Marri, Basel Al	COE
17	A system for converting thermal energy into electrical energy	GCC	Yosef Al Jasem	Thies Thiemann	COS
18	Self-Powered Vibrational Energy Harvesting - New with KU/SRC	US	Mahmoud Al Ahmad	Baker Mahmmd (KU)	COE

## Research Partnerships and Funding

Allocation of Internal Funding  
( 2013 - 2017 )



- Number of External Projects for 43 :2016 projects for AED 29,661,530
- Number of External Projects for 70 :2017 projects for AED 34,266,137.7

## Research Partnerships (Industrial and Academic)

- There have been projects between UAEUs researchers and government and other bodies related to energy, environmental protection, water, health care, traffic safety, biotechnology.
- The current research partnerships include: national and international partnership Sixteen research projects at the United Arab Emirates University (UAEU) have recently received a complete funding from the Department of Education and Knowledge (ADEK) and the "Al- Jalila Foundation, in which - AED 2,399,660 and AED1,430,750 have been awarded /received by UAEU researcher- respectively.
- In 2017 the agreements included 2 industrial research agreements, 2 agreements with international universities, one agreement with a National university, and 10 research agreements with national Agencies.
- In 2018 the agreements included 2 industrial research agreements, and one agreement with an international Agency.

Research Output		
Document Type	2016	
1	Article	575
2	Conference Paper	128
3	Article in Press	-
4	Review	37
5	Letter	6
6	Editorial	8
7	Note	3
8	Erratum	1
9	Book	1
10	Book Chapter	36
Total		795

### Research Funding

- The internal research received for the year 2016 was 47,889,721.49 Dhs.
- The external research received for the year 2016 was 6975468.56 Dhs.

### In 2016

Internal Research		External Research	
Type of Fund	Projects	Type of Fund	Projects
UPAR	45	Center Based	6
Center Based	32	Faculty Research	37
Start up	47		
SURE+	65		
UAEU-SQU	7		

### Research Agreement - Research Projects : 2017

S.No	Project Title	Partnership	Category
1	Assessment of prospects and risks pertaining to the application of biosolids from Aby Dhabi sewage plants to Prosopis cineraria forest plantation	BARRARI	Industry
2	structural condition assessment survey of 7 school in UAE	Harvard University	International University
3	Development of sustainable date palm production system in the GCC	ICARDA	National Agency
4	JCRA2 phase 2	DASSAULT Aviation	Industry
5	Capacity Building in the area of ground water hydrogeology and digital modeling	Environment Agency	National Agency
6	Evaluation of 20 schools by center for positive psychology(CPP)	University of Melbourne	International University
7	Design Research grant agreement	RTA	National Agency



8	Public awareness towards electrical and home safety and awareness and consumption of cosmetics and baby care products and related adverse effects	Dubai Municipality	National Agency
9	Analyzing the composition of dust covering solar panels and analyze its effect on the power generation	Dubai Electricity & Water Authority (DEWA)	National Agency
10	Regional effects of type 1 and type 2 diabetes on sodium-calcium exchanger (NCX) current in rat ventricular myocytes	Zayed University	National University
11	in vitro mechanistic analysis of the effect of safranal on angiogenesis	Al Jalila foundation	National Agency
12	Characterization of direct effects of oxytocin on excitation-contraction coupling in neonatal and adult rat cardio myocytes	Al Jalila foundation	National Agency
13	Effect of increased lipid levels on epigenetic regulation of human embryonic hepatogenesis: use of hESC derived hepatocytes as model	Al Jalila foundation	National Agency
14	on the anti-tumor role of the selective endothelin-type A receptor antagonists Ambrisentan: Influence on in vivo breast cancer growth and metastasis	Al Jalila foundation	National Agency
15	Experimental investigation on water-pipe smoke(shisha) induced cardiovascular pathophysiologic effects: influence of smoke exposure regimen, flavorings and possible protective effect of Gum Arabic	Al Jalila foundation	National Agency

### Consultancy Agreement

1	Consultancy service contract	Dr.Georgios Patrinos
2	Consultancy service contract	Dr.Lam-Son Tran
3	Consultancy service contract	Dr.Jeffrey Lynn Bennetzen
4	Consultancy service contract	Dr.Michael Purugganan
5	structural condition assessment of Cambridge high school in Abu Dhabi	GEMS
6	structural condition assessment survey of 7 school in UAE	Abu Dhabi Education Council(ADEC)

### Subcontract Agreement

1	Subcontract agreement	Centre National de la recherche scientifique
2	Subcontract agreement	Spanish state agency Consejo superior de investigaciones científicas(CSIC)
3	Subcontract agreement	Mega Data System
4	Subcontract agreement-JCRA2	Dar Alkhebra technology projects

### Confidentiality Agreement

1	Avatar Robot to handle dangerous goods	ETIMAD holding L.LC
2	confidentially Agreement	UAE Space agency

### License Agreement

1	Patent license Agreement	Adx Neuroscience
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### Scholarship

1	Al Ain zoo agreement	Al Ain Zoo(AAZ)
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### Strategic Alliance Agreement

1	Strategic Alliance Agreement Between UAEU and Anagensis Ecosystems Innovations.	Anagensis Ecosystems Innovations
2	Amendment to the Strategic Alliance Agreement Between UAEU and Al Hamili International Group	Al Hamili

### Research Centers

#### Zayed bin Sultan Al Nahyan Center for Health Sciences

Zayed bin Sultan Al Nahyan Center for Health Sciences has been established at the United Arab Emirates University. This world-class center will become the leading UAE Center providing a combination of research, teaching, professional development, policy analysis and consultancy for health. The Center will build on the work already undertaken at the College of Medicine, UAEU and will concentrate on high quality translational and applied research that addresses national and regional health issues.

#### Khalifa Center for Genetic Engineering and Biotechnology

The Khalifa Center for Genetic Engineering & Biotechnology (KCGEB) was inaugurated in 2014 by His Highness Sheikh Mansour bin Zayed Al Nahyan, Deputy Prime Minister and Minister of Presidential Affairs. Research at the KCGEB is focused on exploring flora of the arid region to generate scientific knowledge to address the global challenges in the food security and sustainable agriculture practice through genomics, genetic engineering and biotechnological innovations. Our work is supported by strategic funding from the Ministry of Presidential Affairs.

#### Roadway Transportation & Traffic Safety Research Center

Roadway, Transportation, and Traffic Safety Research Center (RTTSRC) was established in June 2004 and charged with the responsibility to serve the nation's development goals in the fields of highway engineering, transportation and traffic safety. RTTSRC is a registered consultant with the Department of Planning & Economy, Abu Dhabi Chamber of Commerce & Industry for the roadways & transportation projects, also registered as an engineering consultant with the municipalities of Abu Dhabi and Al-Ain.

#### UAEU Center for Public Policy and Leadership

The UAEU Center for Public Policy and Leadership aims to offer the best solutions and innovative approaches in dealing with various challenges facing the United Arab Emirates and its society, as well as to become a key partner in excellence and innovation in the fields of public policy, governance, and leadership through achieving four main objectives:

- Conducting specialized research on various aspects of public policy and leadership.
- Developing information bank.
- Providing training and professional development programs for those working in the field of public policy.
- Promoting fruitful and cooperative relationships with the community and stakeholders.

#### National Water Center

The National Water Center aims to support the research and service mission of the United Arab Emirates University in all areas related to water sciences. It will foster basic and applied research to serve the critical needs of the nation related to water conservation and sustainability.

#### Date Palm Development Research Unit Department

The UAE Government, in the framework of its development plans, has placed the establishment of a date production industry one of its priorities. The Date Palm Tissue Culture Lab. is one of several agricultural projects managed by the United Arab Emirates University (UAEU). UAEU is proud to contribute in achieving the noble goals of His Highness, The President Sheikh Khalifa Bin Zayed Al-Nahayan.

#### Emirates Center for Energy and Environment Research

Affordable and clean energy has long been recognized as an engine for economic growth as energy utilization increases in tandem with economic development. With ever higher demands for energy, due to sustained population growth and economic development, amidst concerns about global warming, a number of international studies commissioned energy providers have noted that the era of abundant and cheap hydrocarbon supplies has come to an end. The world is now moving towards an era in which fossil fuels may still dominate temporarily but more energy will have to be obtained from other sustainable resources and in an environmentally friendly manner.



## Emirates Institute for Learning Outcomes Assessment

Inaugurated on 14th, November, 2016, the Institute was established due to growing efforts towards gaining accreditation and assessment both nationally and internationally. The absence of a collective benchmark and sharing of resources amongst higher education institutions in the region created the need for a body to oversee this.

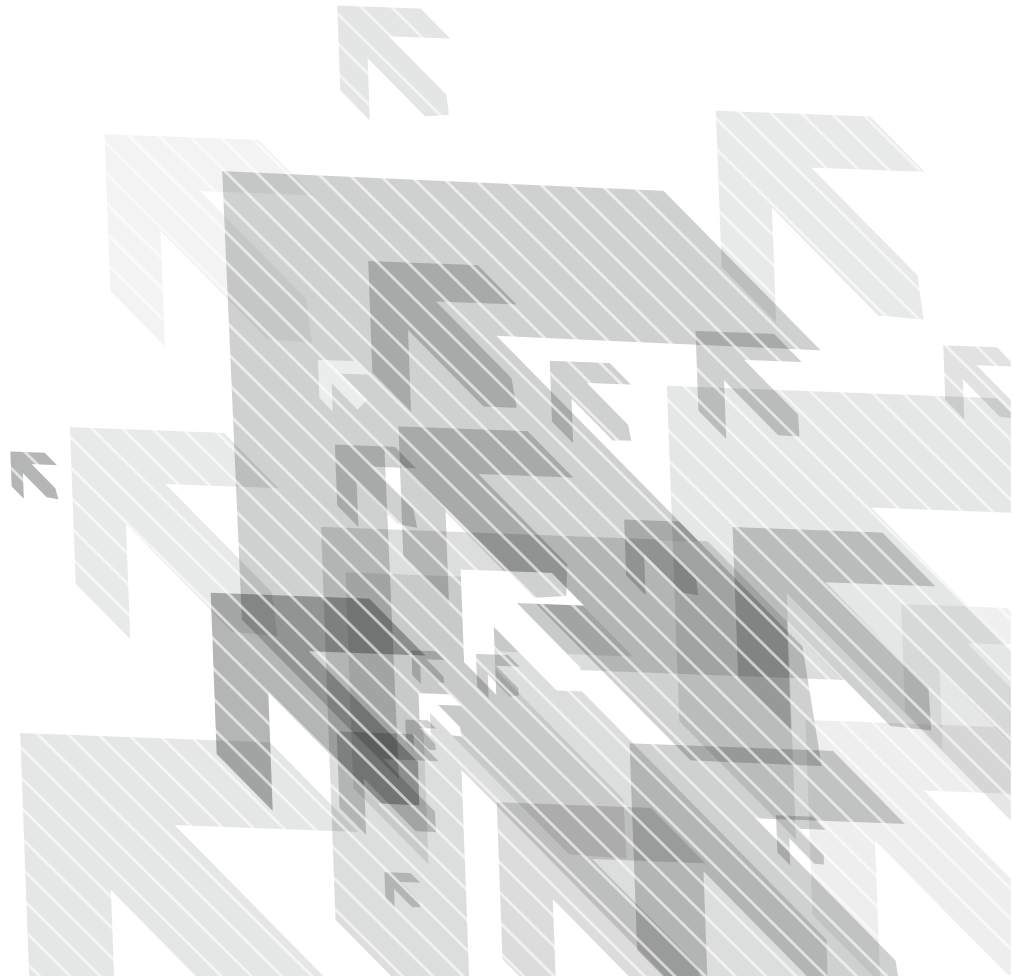
Rethinking the relationship between higher education institutions is essential for the promotion of better learning. Until now, accreditation and assessment of higher education has been compliance based. One of the contributions of the Institute is to turn existing compliance-based models into innovative vehicles for the development of better learning.

## The National Space Science and Technology Center (NSSTC)

The National Space Science and Technology Center (NSSTC) has been initiated by UAEU, the ICT-FUND and TRA. Its creation is primarily motivated by UAEU's need to strengthen its role as a knowledge and education contributor to the vital needs of the nation in the fields of Space Science and Space Technology and to become a significant space science and technology hub in the region. The priorities of the NSSTC will be three-fold: excellence in space science, engineering leadership in space technologies, and providing innovative solutions to societal challenges.

A world-class space science program will be developed at the NSSTC, and will become the foundational driver of tomorrow's space technologies. Strategic and key technologies will be the focus of both the science and engineering research activities conducted at the center.

The main areas of focus of the center will be research and development, higher education and community outreach. The NSSTC will strive to establish close collaborations with the local space and technology industries as well as with established space and technology centers worldwide

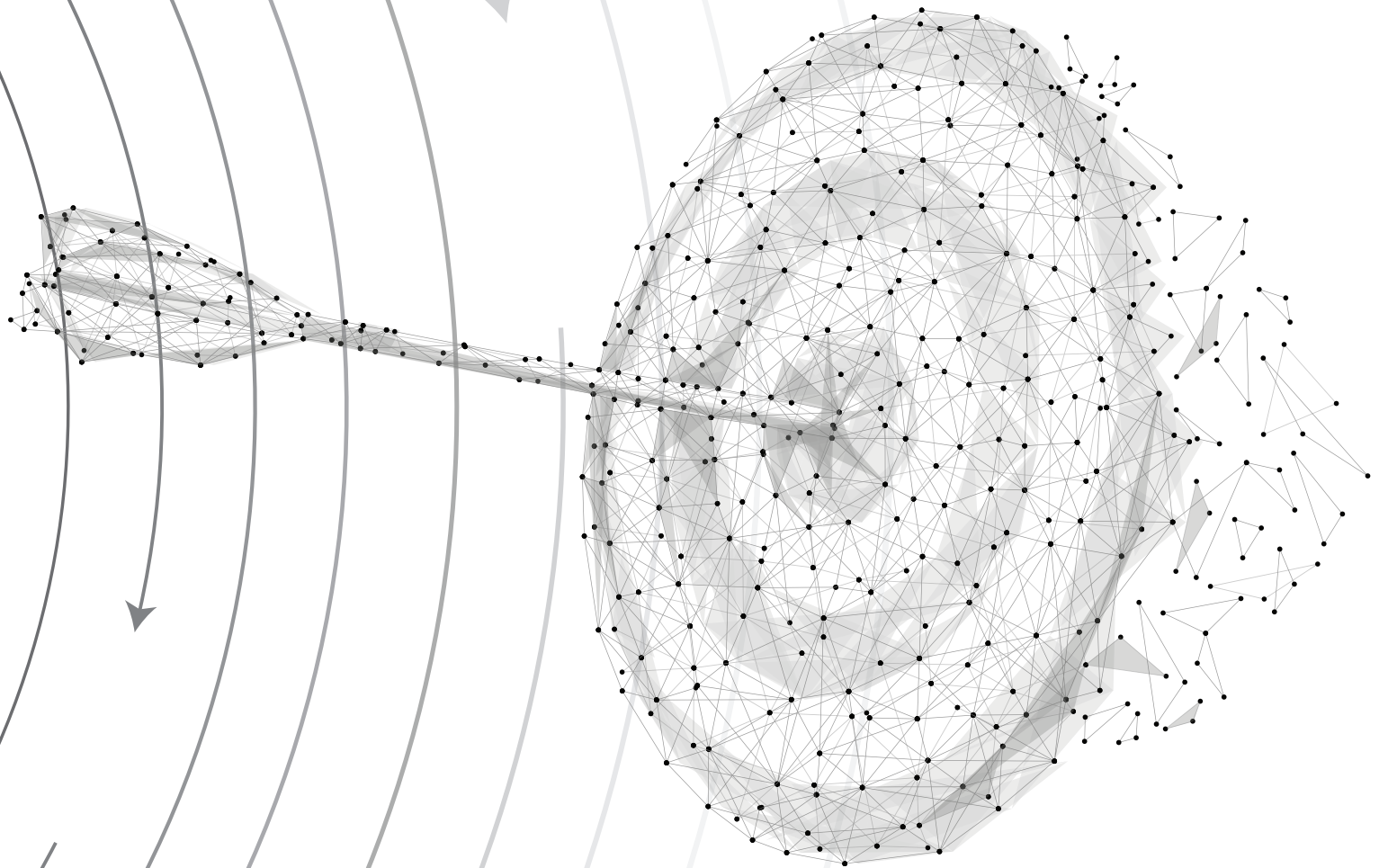




# Goal 3

Achieve academic excellence in accordance with academic accreditation and institutional accreditation standards

To link the university with the global higher education and research communities and to ensure that our processes and outcomes are at the level displayed by the world's leading universities.





## Rankings

2016

UAEU ranked by QS as #6  
in the Arab Region

2017

UAEU ranked by QS as #1  
in the UAE and #6 in the  
Arab Region

## University Accreditation

- In September 2016, College of Engineering is re-accredited by the Accreditation Board for Engineering and Technology (ABET) in the United States till 2022.
- In September 2016, the Chemistry Department of the College of Science at the United Arab Emirates University has earned re-accreditation from the Royal Society of Chemistry in the UK for another five years

## International Faculty Links; Distinguished Professors & Researchers:

Four UAEU Faculty members win the Rashid Academic Excellence Award – Faculty Category:

- Prof. Ahmed Murad, Dean of the College of Science
- Prof. Suliman Al Hammadi, Vice Dean of the College of Medicine & Health Sciences
- Prof. Juma Al Kaabi, College of Medicine & Health Sciences
- Dr. Abdulla Shehab, College of Medicine & Health Sciences

Prof. Ahmed Murad, Dean of the College of Science, wins the 2017 Alumni Achievement Award from the College of Arts and Sciences, Western Michigan University, USA.

Dr. Khalifa Al Suwaidi, UAEU College of Education faculty member, is honored by the UNESCO, in appreciation of his outstanding efforts in developing education, and promoting the values and principles of UNESCO world-wide

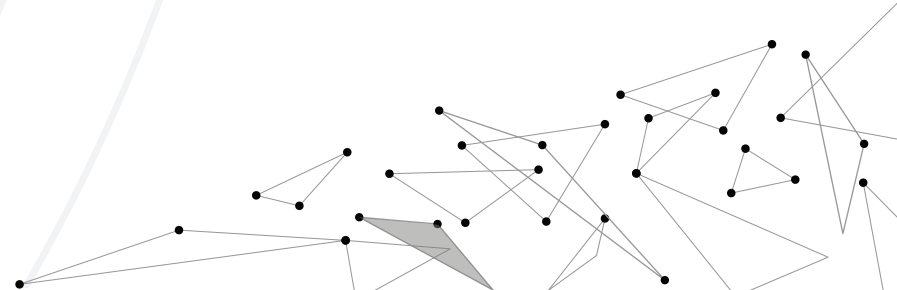
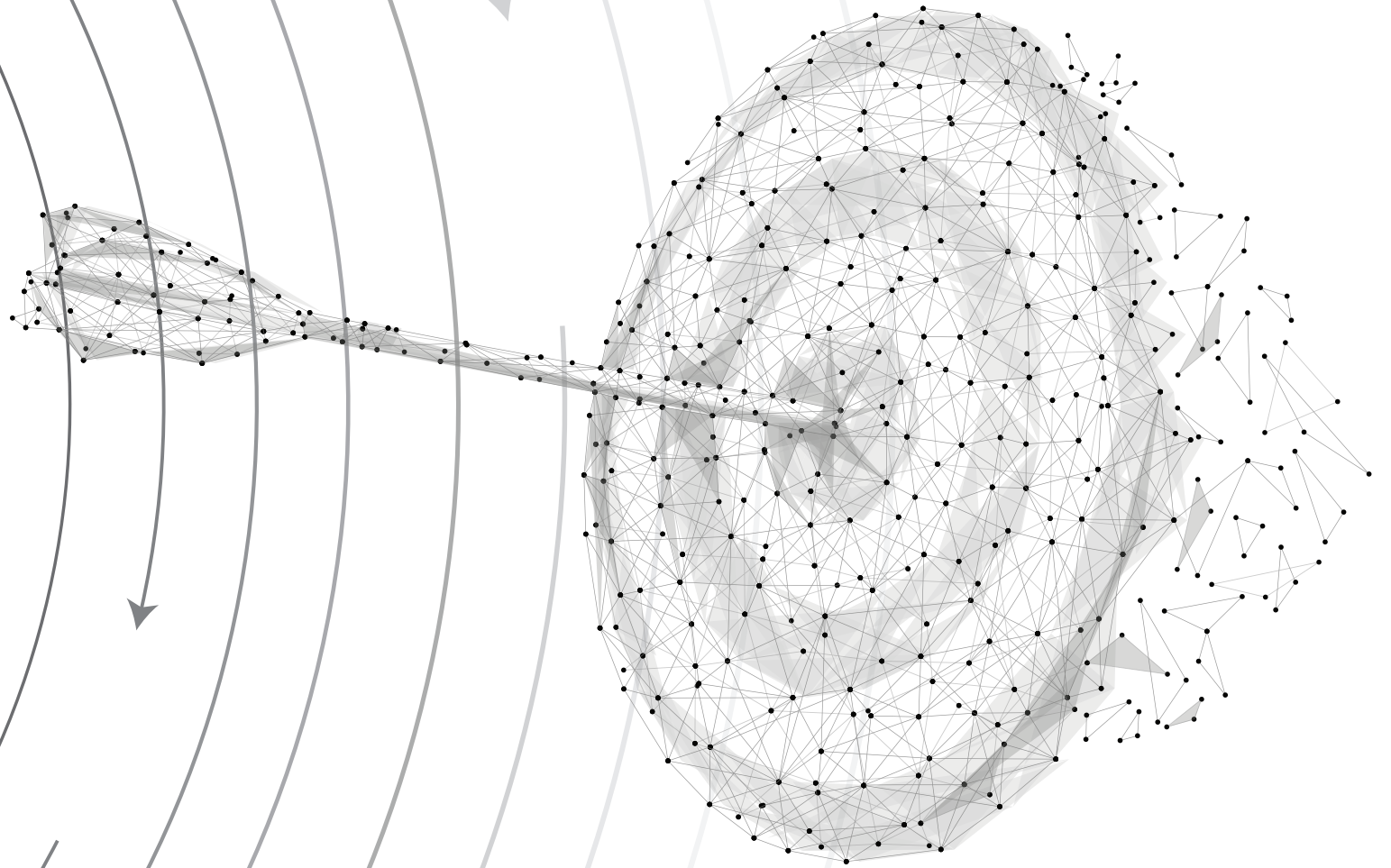
## International Collaboration Agreements:

- The UAEU and Tsinghua University sign a Memorandum of Understanding for Academic Exchange
- The UAEU and JEJU National University sign a Memorandum of Understanding for Academic Exchange
- The UAEU's College of Medicine and Health Sciences and Hokkaido University's Graduate School of Medicine sign a Memorandum of Understanding for Academic Exchange
- The UAEU and Edith Cowan University sign a Memorandum of Understanding for Academic Exchange
- The UAEU and IESEG School of Management sign a Memorandum of Understanding for student exchange
- The UAEU and Georgia State University sign letter for a collaboration
- The UAEU and University of La Verne, USA sign an agreement of cooperation
- The UAEU and Hokkaido University sign a Memorandum of Understanding for Academic Exchange
- The UAEU and University of Melbourne sign a research agreement

# Goal 4

Promote the University's role in the transfer of knowledge and skills to serve the society

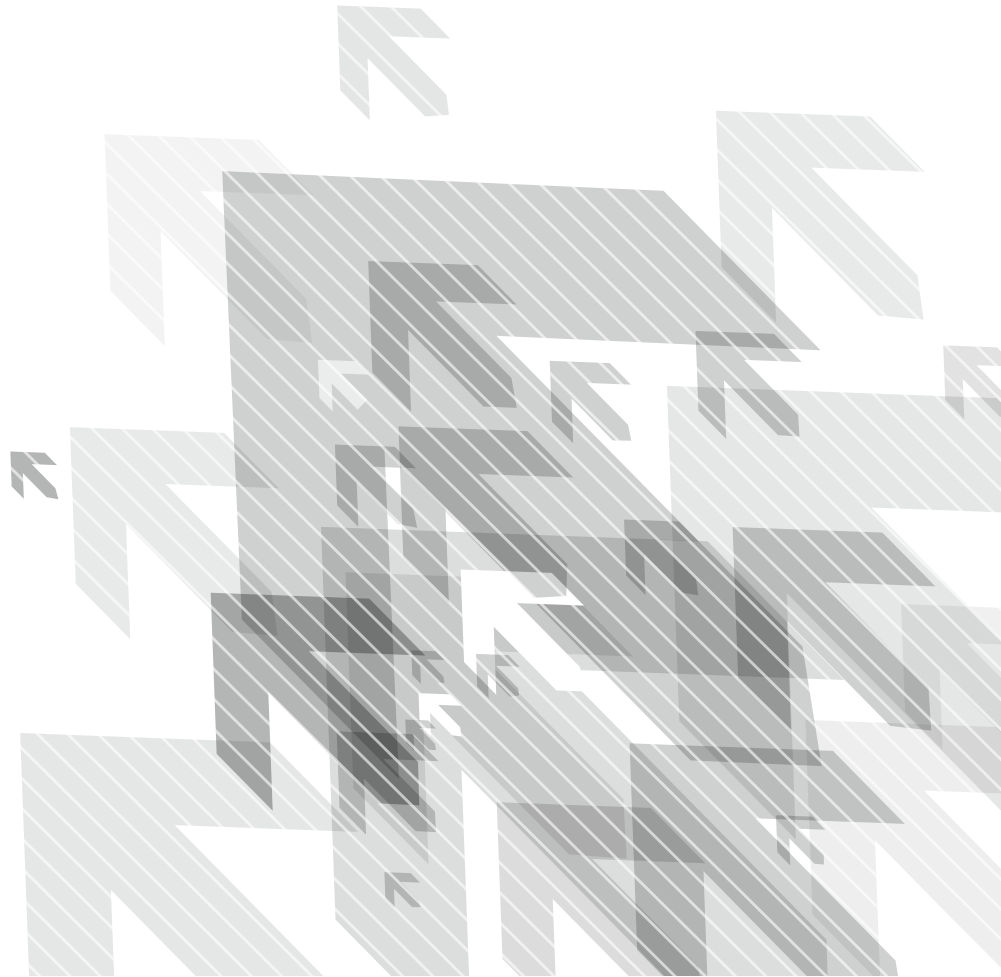
To reinforce the national status and international reputation of the university, and ensure effective transfer of knowledge and skills to our partners and the community.





## MOUs

- The UAEU and the Ministry of Energy sign a Memorandum of Understanding
- The UAEU, Telecommunications Regulatory Authority and Huawei Tech sign a Memorandum of Understanding
- The UAEU, Al Bayt Al Mitwahid Association and ADEK sign a Memorandum of Understanding to build an “Innovation Hub powered by Google” at the UAEU Science & Innovation Park
- The UAEU and Tecmilenio University, Mexico sign a Memorandum of Understanding for research collaboration on Happiness and Positivity studies
- The UAEU, the Ministry of Health & Prevention and the University of Birmingham sign a Memorandum of Understanding

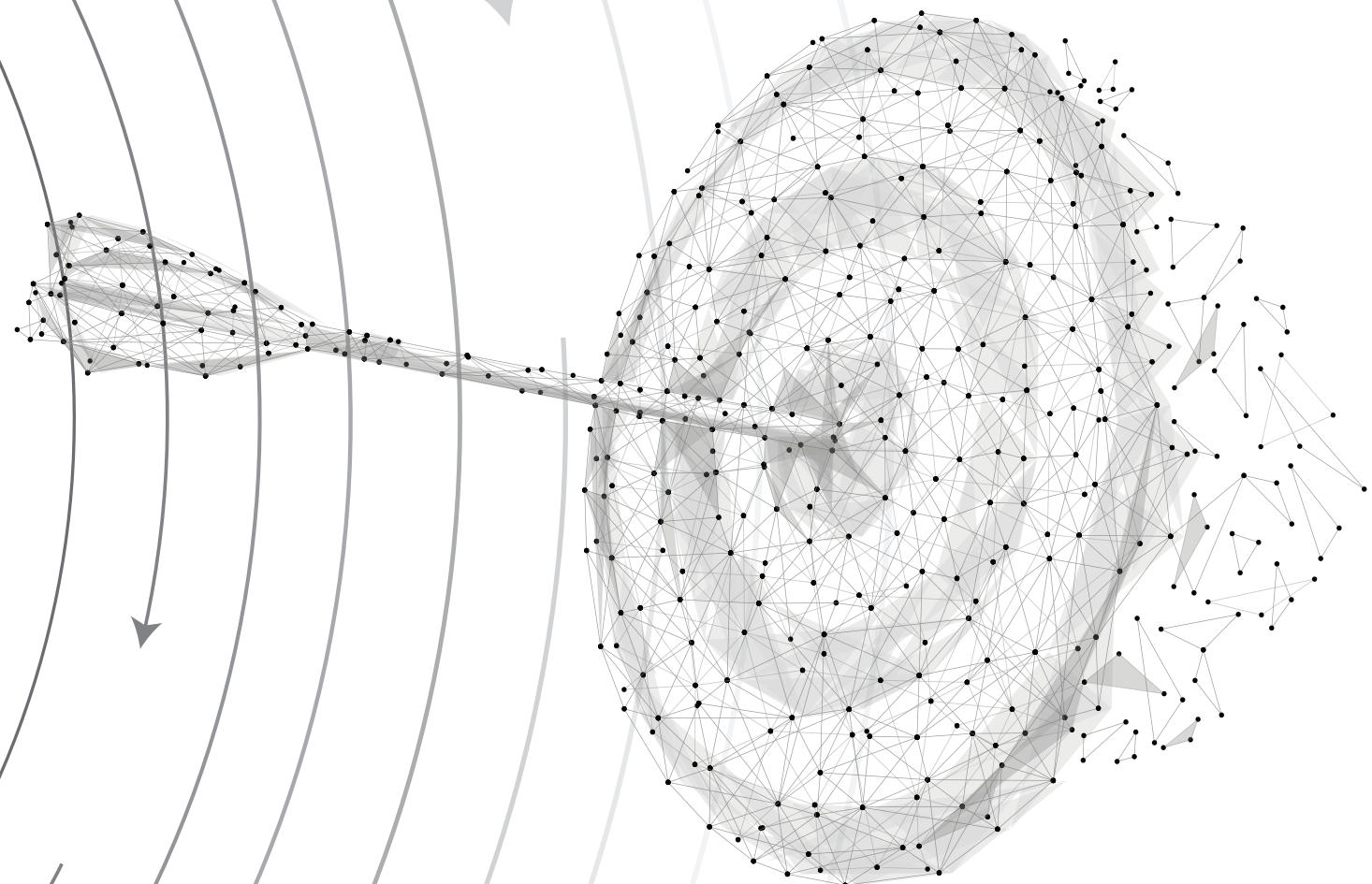




# Goal 5

Ensure that administrative services are provided with a high standard of quality, efficiency and transparency

To ensure that institutional services, infrastructure, and finances provide the best possible service and support to the core university activities of research and education.



## Emiratization

UAEU is highly dedicated to UAE's initiative of Emiratization to hire and retain qualified Emiratis and to meet Emiratization Targets in light of UAEU's Strategic Plan. The Overall Percentage of Emiratization in administrative positions has increased to 69% in 2016, 100% in leadership category, 81% in Supervisory Category, 52.57% in Specialists Category, 81% in Executive Category.

## Technological Transformation

The University Information Technology Sector (UITS) completed a number of projects and upgrades to improve the university's service offerings some of which included:

- Developed the New Grants Management System, a comprehensive solution to automate all activities related to grant funding process that introduced different modules related to; proposal preparation and submission, Internal evaluation, External Evaluation and PIs progress report submission.
- Microsoft SharePoint technology has been upgraded from version 2010 to 2016.
- Developed an in-house online student academic field trip management solution for the Colleges Activities & Community Support Office to fully automate their business process.
- Developed a new website for the Science and Innovation Park using UAEU standard brand and is hosted under UAEU domain. It support both Arabic and English and is mobile friendly.
- Provost dashboard helps to analyze / review data related to pre-defined indicators as defined by the provost office. They are categorized by Enrollment, Students, Faculty, Teaching, Research and KPI.
- Data related to Enrollment, Students, Faculty and Teaching are extracted from the ODS database and data related to research indicators and KPI are obtained from Institutional research.
- Dashboard provide trend data by term as well as help to forecast with moving average calculation."
- On request from Student Services Department to enhance the current Student Financial Aid System UITS developed the new features. Some of these changes came from the funding institute (Zakat Fund) that has requested up-to-date documents regarding the applicant's financial situation. Another changes include enhancing the payment process, additional notifications, and changes to the backoffice interfaces.
- The Student Activities Department initiated new Student Volunteer System has automated the process of managing student volunteer work for the events.

- Enhancing the mobile app version by improving set of students services such as: GPA calculator, Student Attendance, as well as new services for different set of users of UAEU mobile application. Faculty Services such as taking attendance and class schedule were added. Moreover, new Alumni services included such as requesting Graduation Certificate, Attestation Certificate, University Degree, Replacement of Degree, Alumni ID Card, Alumni Profile, and Alumni Directory etc.
- Upgraded the eLearning management system (Blackboard) upgrade from 9.1 SP14 to 9.1 Q2 2016 to ensure that we have the latest release to provide best of the available features.
- Upgrade the Internet firewall to increase the University ability to acquire and serve faculty & students for all their digital needs. Provide unrestricted, high-bandwidth access & services to all on or around campus. Secure sensitive research, student

## Continuous Business Improvement

The Secretary General's Division is responsible for providing a range of business services in support of the university through five departments: Financial Affairs, Human Resources, General Services, Facilities Management, and Procurement. Noteworthy achievements include:

- The General Services Department has replaced 11 buses of high quality and specifications that provide comfort, security and safety for students.
- Drivers Appraisal System & Outstanding Driver Award : the categorization of drivers into 6 categories of recognition through the establishment of the Outstanding Driver Award
- Drivers User Guide - The User Guide has been updated in accordance with applicable laws and regulations in this regard, in order to ensure the proper functioning of University vehicles
- Bus Cameras - University buses are equipped with cameras to monitor driver behavior while driving, which aims to reduce some of the misconduct that may endanger the lives of students
- Innovation Bus - A new bus design has been developed for innovation with an advanced display screen, including a distinctive interior design, utilizing the bus for outdoor meetings and discussing innovative projects
- Enhanced the "Contract Renewal Notification Process" to be three notifications instead of one notification, to ensure transparency among parties, enhances the leave system to reflect the UAEU policy and to be more effective, added Housing letter (ADNOC) in Eservice/Banner so employees can get them online, Enhanced the clearance system to help responsible employees to complete their task easier, improved E-Recruitment System's search to make it easier for the candidates to find the academic positions in JOBS, simplify the Overtime system for the Account Officers, Completing the FAHR requirements that related to HRIS unit, Updating the reports in crystal so can be run by the employees when needed, and uploading uploaded all the Job descriptions divided by division, College/ department, Section, Unit in the SharePoint to make it easy for departments/colleges and employees to access the job description



- 58 new nationals were trained in the years (2016-2017) through the New Employees Induction Program. In 2016, total number of 681 employees were trained. The department arranged also workshops to clarify its procedures and process, for example, E-Recruitment and hiring process workshop for HR Coordinators. HR Department trained 25 employees to be a trainer, preparing them to be “Ambassadors of Knowledge” in transferring the knowledge among UAEU’s environment. To improve the process of employees’ performance evaluation, the Human Resources department reviewed and provided each Job description with the related goals and objectives. Considering development programs as part of the plan to encourage our employees.
- Established an electronic follow-up database for annual contracts (Phase I) by using UAEU Service Desk
- Established an automated system, in collaboration with UITS to include price agreements items with their data
- Established a special page on UAEU website to request any transactions from the warehouse department
- Established a Workflow- share point tracking system
- Electronic follow-up of Procurement Central Committee decisions and Electronic Approval of minutes
- Recycle returned materials within the university - Presentation of returned materials to the University’s departments for the purpose of recycling them
- Updated construction contracts templates in accordance with FIDIC Conditions of Contracts for Construction
- Updated procurement policy and procedures based on review and feedback on the application of procedures.

## Financial Statement

Statement of Revenues and Expenditures for the year Ended 31/12/2016	
Revenues	Amount (AED)
(1) Unrestricted - Federal	1,455,805,488.09
(2) Restricted - Government and Other	232,401,882.05
(3) Allotments	247,699,285.80
<b>Total Revenues</b>	<b>1,935,906,655.94</b>

Financial Position as of 31/12/2016	
Assets	Amount (AED)
(1) Cash at Banks	644,231,939.50
(2) Account Receivables	74,319,385.51
<b>Total Assets</b>	<b>718,551,325.01</b>

Expenditures	Amount (AED)
Unrestricted - Federal	1,455,430,621.49
Restricted - Government and Other	79,412,435.64
Allotments	68,320,055.74
<b>Total Expenditures</b>	<b>1,603,163,112.87</b>

Liabilities	Amount (AED)
(4) Trade Payable (Suppliers)	33,265,596.38
(5) Commitments Payable	326,731,737.20
(6) Other Current Liabilities	143,030,249.57
<b>Total Liabilities</b>	<b>503,027,583.15</b>

(4) Ending Fund Balance	Amount (AED)
Unrestricted - Federal	374,866.60
Restricted - Government and Other	152,989,446.41
Allotments	179,379,230.06
<b>Total Ending Fund Balance (Revenues-Expenditures)</b>	<b>332,743,543.07</b>

Ending Fund Balance	Amount (AED)
Accumulated General Reserve	117,219,801.21
<b>Total Ending Fund Balance</b>	<b>332,743,543.07</b>
<b>Total Liabilities &amp; Fund Balance</b>	<b>718,551,325.01</b>

Notes:

1.	Government Funding and Other Revenues	1.	Bank Account Balance as of 31/12/2016
2.	Restricted Funding (Grants and Donations)	2.	Include Suppliers debts, Students receivables + other receivables
3.	Allotments and Internally Funded Research (Allocated from Unrestricted Fund)	3.	Amounts due to suppliers and contractors
4.	Surplus/Deficit	4.	Commitments carried forward from previous years
		5.	Salaries payable, end of service benefits, retentions, deposits and others



The image features a central URL, [www.uaeu.ac.ae](http://www.uaeu.ac.ae), surrounded by a series of concentric circular lines. Small arrows are placed at various points along these lines, all pointing in a clockwise direction, which suggests a continuous cycle or a repeating process. The overall design is minimalist and uses a grayscale color palette.

[www.uaeu.ac.ae](http://www.uaeu.ac.ae)