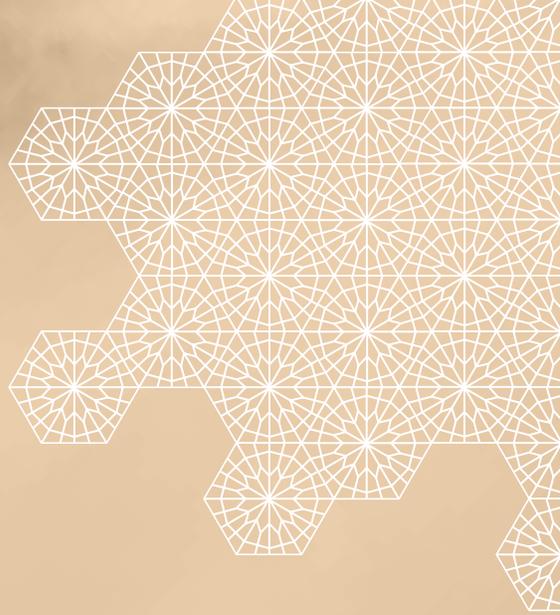




**KHALIFA**  
UNIVERSITY

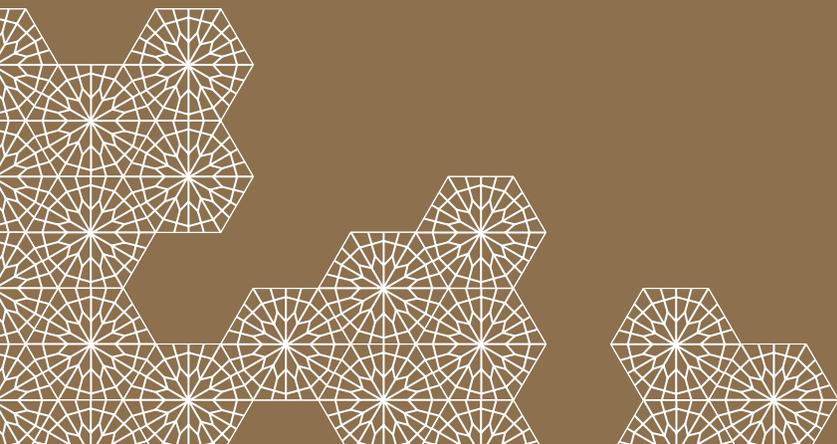
# Synopsis

Khalifa University





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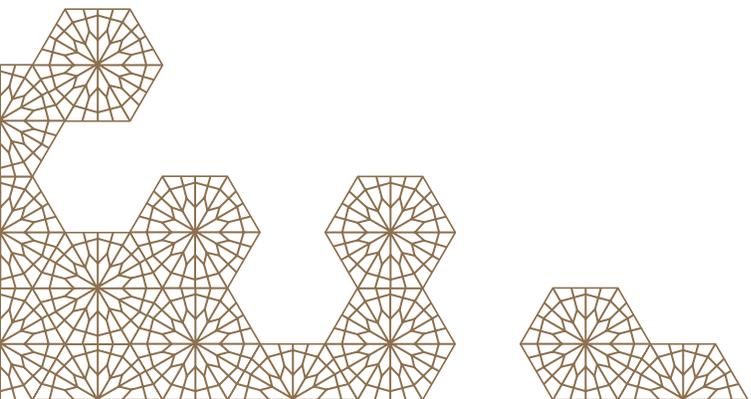
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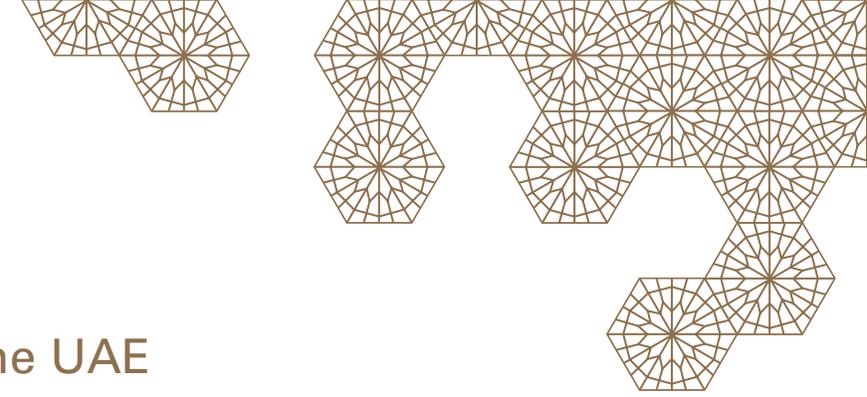
# 01

## Introduction

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Khalifa University was established in February 2007 by a decree issued by the UAE President, His Highness Sheikh Khalifa Bin Zayed Al Nahyan to complement Abu Dhabi's 2030 vision, which aims at building a knowledge-based economy that effectively contributes to the development of the UAE.





## 02

### About the UAE

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The United Arab Emirates were formed in 1971. They consist of 7 Emirates, with Dubai and Abu Dhabi being by far the largest. In the recent past, it's income came mainly from its oil reserves, and today it is the 6th largest oil producer in the world.

Geographically, the country is made up of vast swathes of rolling sand dunes, punctuated by occasional mountain ranges. This is due mainly to the high temperatures, where the summers are scorching hot, and the winters that are beautifully warm. It very rarely rains, but when it does the lightning and thunder can be spectacular.

As of 2010, there were estimated to be around five million inhabitants of the UAE, with just 20% of them being local Emiratis, and the rest being foreign expats. The country also boasts the world's highest net-migration rate, which is to be expected from a country that is growing so quickly.

Billions have been spent on infrastructure over the past few years, with new road networks, public transport systems and cultural buildings, including art galleries, golf courses, business hubs, schools and universities.

# 03

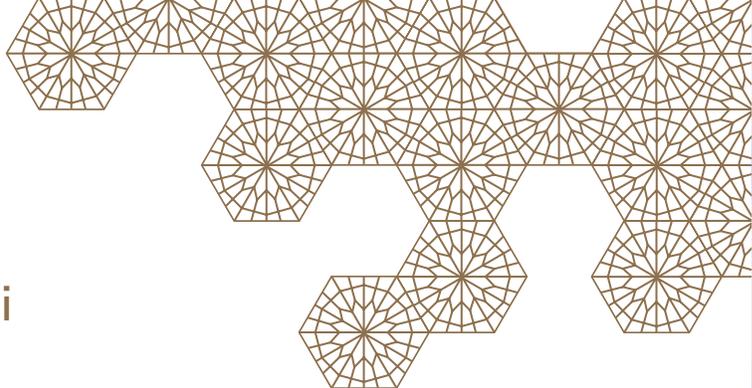
## About Abu Dhabi

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Abu Dhabi is the capital of the UAE, and its largest Emirate. What was once a thriving trade centre, specializing in pearls, has since grown into a modern cosmopolitan city boasting sky sky scrapers, beaches, contemporary restaurants, over 2,000 well maintained parks and a budding art scene.

With 9% of the world's oil reserves, Abu Dhabi's economy is incredibly robust, and it's GDP of \$63,000 is the third highest in the world. Under the 2030 Vision, Abu Dhabi intend to invest their oil income into other sectors such as industry, real estate, tourism and retail.

Abu Dhabi already hosts Formula1 racing on its Yas Island track, where you will also find Ferrari World and the world's fastest roller coaster. The Red Bull Air Race is another popular annual event, and both a Louvre and a Guggenheim are being built on Saadiyat Island where they will be the only extensions of these world famous museums outside of their home citites.





# 04

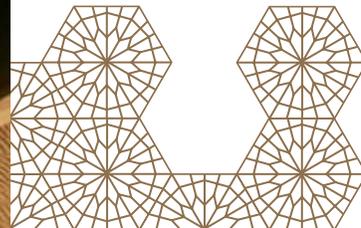
## Abu Dhabi 2030 Vision

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The Abu Dhabi 2030 Vision was decreed by His Highness Sheikh Khalifa Bin Zayed Al Nahyan in 2006.

It's goals are to increase the diversification of the UAE, in order to make it a prosperous, modern city that boasts some of the world's best attractions, most efficient infrastructure, and most successful business hubs.

Khalifa University's role for the 2030 Vision is to produce students who are committed passionately to achieving these goals, and inspiring the next generations of Emirati engineers, scientists, medical doctors, researchers, and professionals.



# 05

## Khalifa University

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Khalifa University is an Abu Dhabi Government initiative and is owned solely by the Emirate of Abu Dhabi.

The University opened its new interim campus in Abu Dhabi on October 2008 to add to the campus in Sharjah. The university's permanent Abu Dhabi campus is currently being developed. The Sharjah branch campus has a very proud 18-year history and on 11 February 2008 was merged with the University to form the foundation of Khalifa University.





## 06 President's Message

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"I would like to extend my warm welcome from Khalifa University in Abu Dhabi, the Capital of the United Arab Emirates.

Since I joined Khalifa University back in August 2010, it has been an absolute privilege to serve as President and to have had the opportunity to meet and work with global leaders, in this truly warm and welcoming international and cosmopolitan city.

From its founding 39 years ago, the United Arab Emirates was guided by the desire to optimize the resources within the country, to create sustainable development, to encourage mutual tolerance and respect for difference, and to play a greater role on the world stage. In this comparatively short history the UAE has transformed itself into a world-class economy and society, an achievement it has taken

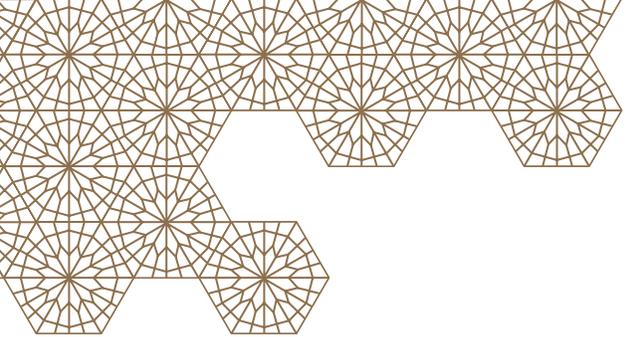
most other countries centuries to achieve. First time visitors to the UAE and Abu Dhabi are typically astounded by the scope of activity and ambition that they find here. Perhaps not surprisingly, given this environment, Khalifa University is building a world-class institution at an accelerated pace, seeking to leverage and build upon the vibrant culture here by building innovative capacity with an emphasis on engineering, science, and medicine.

As a research-based, co-educational University, our focus is to attract the caliber of people who can contribute not only to teaching but to driving research and innovation. Through this activity we contribute directly to the knowledge based economy

foreseen by the Abu Dhabi 2030 Vision. Knowledge creation and development of human capital are at the heart of our mission and the 2030 Vision, providing a vivid reminder of the role our university will play in the development of the country and region.

Khalifa University and Abu Dhabi  
Welcome You!"

**Dr. Tod A. Laursen**  
President  
Khalifa University



07

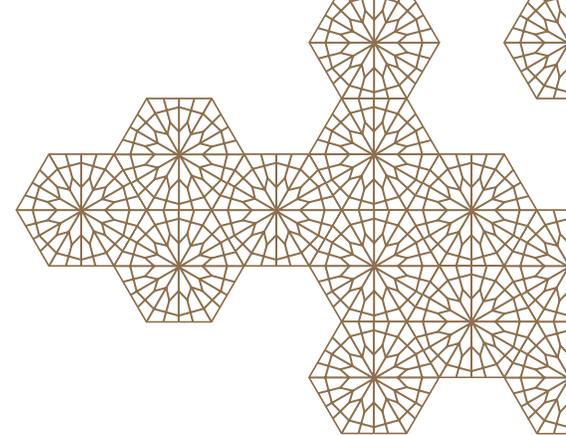
## World Class Faculty

Research Driven

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At Khalifa University, we encourage both our faculty and students to be research focused. Our current faculty regularly present cutting-edge research at international conferences and seminars, while eminent academics and industrialists worldwide monitor the quality of courses. This has manifested itself in high quality teaching relevant to the needs of industry, a consistent quality graduate output over a period of 20 years, appropriate postgraduate research, outstanding intellectual leadership as well as refer reed journal articles and presentations.





# 08

## Khalifa University

What Sets Us Apart

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The main thing that sets us apart from other Universities in the region is the rigorous standards we set for our students. By recruiting faculty of a global standard we are able to give them the knowledge and desire to achieve at a much higher lever than their peers. We also reward our students with international research trips, and encourage them to enter international competitions where they compete some of the world's great learning institutions.

We are dedicated to ensuring the students we produce are able to excel in their chosen field, and to do that we require faculty who are stimulated, enthusiastic and happy, so we do everything possible to provide everything faculty need to do their jobs to the best of their ability.

# 09

## Undergraduate Programs

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B.Sc. Aerospace Engineering

B.Sc. Biomedical Engineering

B.Sc. Communications Engineering

B.Sc. Computer Engineering (with optional concentration in Software Systems)

B.Sc. Electrical and Electronic Engineering (with optional concentration in Power Systems)

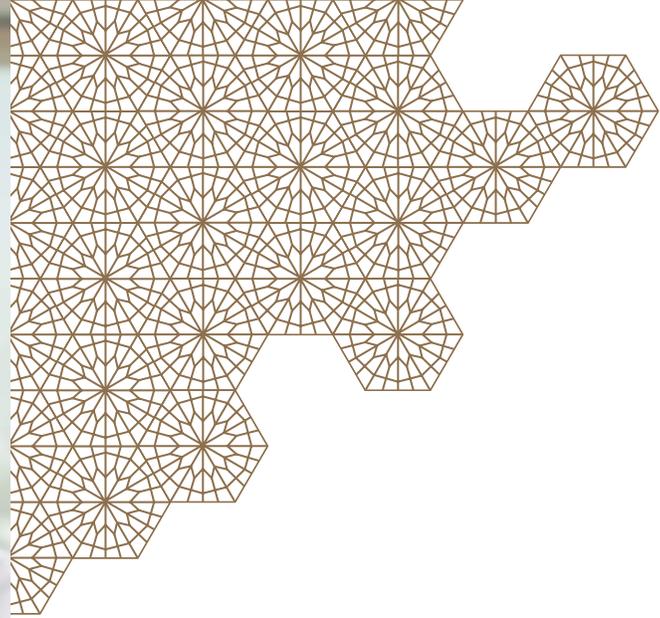
B.Sc. Mechanical Engineering

B.Sc. Industrial and Systems Engineering

B.Sc. Civil Engineering

B.Sc. Applied Mathematics and Statistics (optional concentrations in Financial Mathematics / Mathematical Biology)





# 10

## Postgraduate Programs

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M.A. International and Civil Security

M.Sc. Information Security

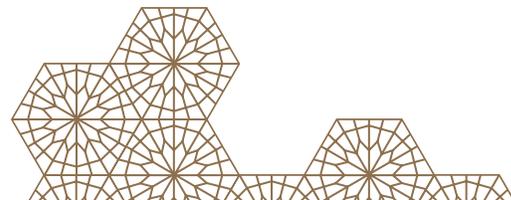
M.Sc. Nuclear Engineering

M.Sc. by Research in Engineering  
(Electrical and Computer)

M.Sc. Electrical & Computer  
Engineering

M.Sc. Mechanical Engineering

**Ph.D. Engineering** (with the option to specialize in Electrical and Computer, Mechanical, Aerospace, Nuclear, Biomedical, or Robotics Engineering)



## Research and Development Centers

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Khalifa University of Science, Technology & Research is first and foremost a research University. The University is actively engaged in establishing a world-class Research and Development Enterprise that addresses different clusters and includes several R&D and innovation centers.

By joining forces with established international companies like British Telecom, as well as local technology leaders such as Mubadala Aerospace, we have developed R&D hubs such as EBTIC and our Aerospace Research and Innovation centers, designed to support a 'Knowledge Revenue Generation Economy' in Abu Dhabi.

Khalifa University is also managing Ankabut - the United Arab Emirates' National Research and Education Network (NREN). This offers academic institutions connectivity to other education networks around the world. Ankabut also co-operates on a national, GCC, regional and international arena representing the UAE in conferences, exhibitions and forums. Ankabut aims to offer QoS based networks with IPv4/IPv6, multicast and introduce advanced services on a "Closed Group Network" with "Public Interest Purposes".



تَعَلَّمْ فَلَيْسَ الرَّبُّ يُؤَدِّبُكَ إِلَّا

