



جامعة خليفة
Khalifa University

Top-Ranked Research-Intensive
University (www.ku.ac.ae)

Graduate Education & Research

Nurturing tomorrow's leaders..
Growing the knowledge economy.

LOCATION: ABU DHABI CITY, UNITED ARAB EMIRATES (UAE)

UAE Capital	Abu Dhabi
UAE population	9.7 Million
Abu Dhabi population	2.9 Million
Language	Arabic (official) & English (widely used)
International Community	over 180 Nationalities

Abu Dhabi Highlights:

- Cosmopolitan Modern City
- **Safe, Friendly, & Sunny All Year Long**
- Indoor & Outdoor Activities
- Well Connected to other cities including **Dubai**
- Direct Flights to many International Destinations



Louvre Museum Abu Dhabi



Sheikh Zayed Grand Mosque

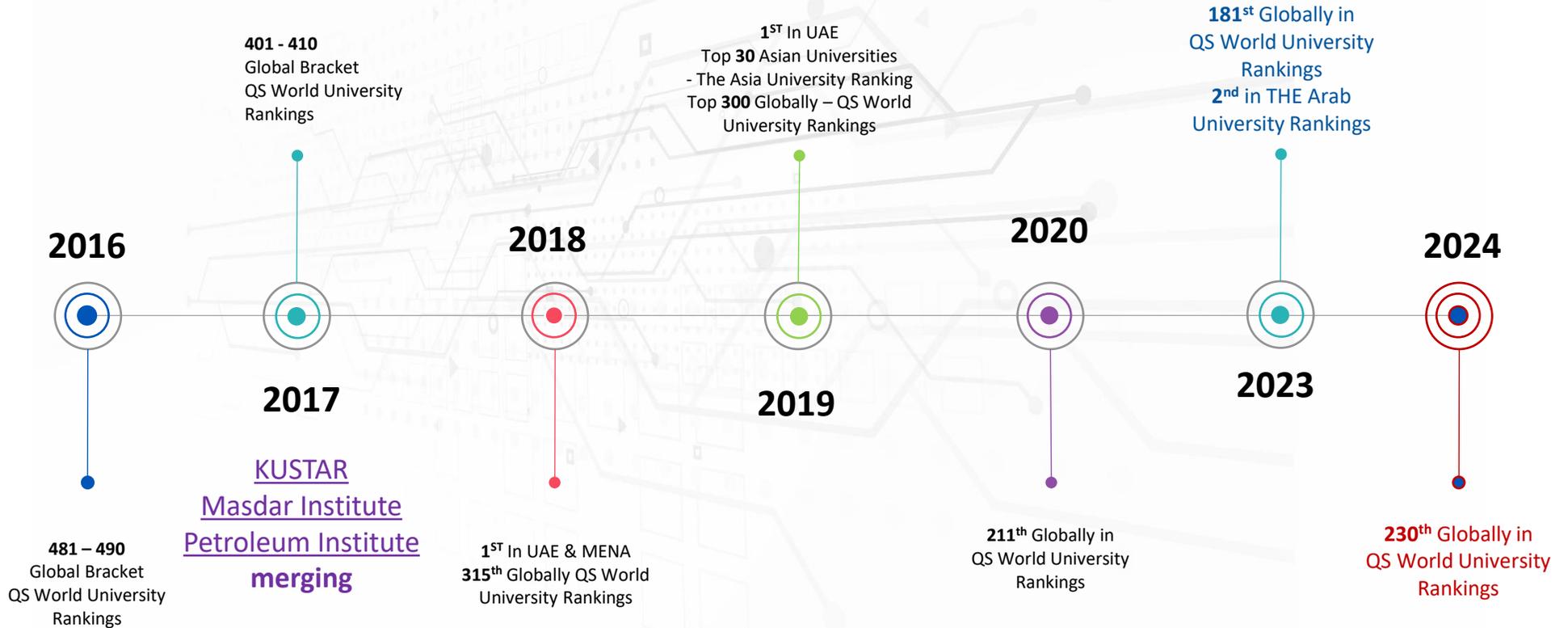


Qasr Al Watan Presid. Palace



Ferrari World in Abu Dhabi

Worldwide Ranking



UAE: The most innovative country in the whole Arab region

KHALIFA UNIVERSITY

- About 4000 under/postgraduate students
- ~400 faculty from 50 countries (88% Expat)
- Excellent Student to Faculty Ratio 10:1
- Excellent Facilities across 2 Campuses
- 225+ World-Class Research Labs
- International Graduate Students Community
- **Three Colleges (Engineering* & Physical Sciences, Computing & Math Sciences, Medicine and Health Sciences)**

* ~40% Eng. Faculty among World's Top 2% Scientists



College of Engineering and Physical Sciences

- **Department of Aerospace Engineering**
(PhD in Aerospace Eng.)
- **Department of Chemical and Petroleum Engineering**
(PhD in Chemical Eng., PhD in Petroleum Eng.)
- **Department of Civil and Environmental Engineering**
(PhD in Civil Infrastructure & Environmental Eng.)
- **Department of Electrical Engineering**
(PhD in Electrical and Computer Engineering)
- **Department of Management Science and Engineering**
(PhD in Engineering Systems & Management)
- **Department of Mechanical and Nuclear Engineering**
(PhD in Mechanical Eng., PhD in Material Sci. Eng.,
PhD in Nuclear Eng.)
- **Department of Chemistry** (PhD in Chemistry)
- **Department of Physics** (PhD in Physics)
- **Department of Earth Sciences** (PhD in Earth Sciences)
- **Interdisciplinary Program** (PhD in Robotics)

Natural
Sciences

College of Computing and Math. Sciences

- **Department of Computer Science**
- **Department of Computer and Communication Engineering**
- **Department of Mathematics**

College of Medicine and Health Sciences

- **Department of Biomedical Engineering and Biotechnology**
- **Department of Biological Sciences**
- **Department of Medical Sciences**
- **Department of Public Health and Epidemiology**
- *Balsam Community Health Program*
- *Falcon Learning Communities*



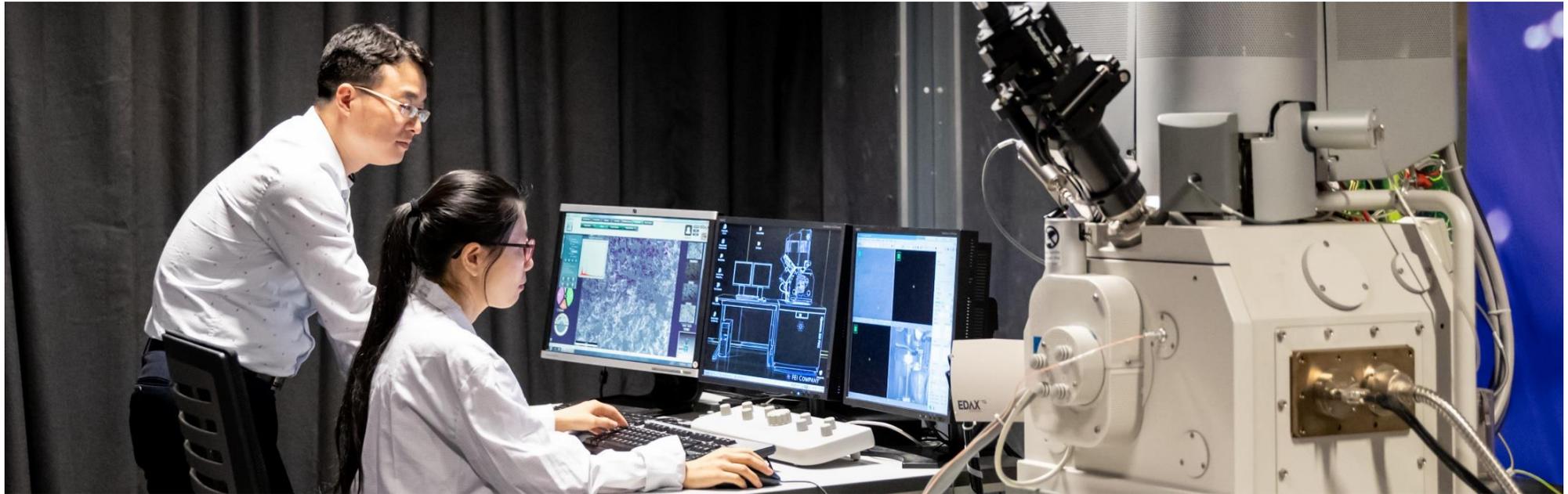
A close-up photograph of a purple ballpoint pen writing on a piece of paper. The paper contains handwritten mathematical formulas, including $n_i = 3.0$ and $0.2 N_i$. The background is dark and out of focus.

GRADUATE PROGRAMS & RESEARCH

GRADUATE EDUCATION

Through its College of Engineering and Physical Sciences, College of Computing and Mathematical Sciences, and College of Medicine and Health Sciences, **Khalifa University offers a range of Master's and Doctorate programs** designed for the pursuit of advanced specialized knowledge and skills in engineering, security, science and technology. Students engage in cutting-edge research and formulate innovative solutions to contemporary global challenges. Selected programs also allow students to focus their coursework in a chosen area via an optional concentration.





DOCTOR OF PHILOSOPHY IN **ENGINEERING**

ONLINE APPLICATION IS OPEN
FOR Fall 2024 since December 1,
2023

- **Aerospace Engineering**
- **Biomedical Engineering (CMHS)**
- **Chemical Engineering**
- **Civil Infrastructure and Environmental Engineering**
- **Electrical and Computer Engineering**
- **Engineering Systems and Management**
- **Material Science and Engineering**
- **Mechanical Engineering**
- **Nuclear Engineering**
(offered for UAE and Saudi nationals only)
- **Petroleum Engineering**
- **Robotics**



ONLINE APPLICATION IS OPEN
FOR Fall 2024 since December 1,
2023

MASTER OF SCIENCE IN ENGINEERING

- Master of Science in Aerospace Engineering
- Master of Science in Biomedical Engineering
- Master of Science in Chemical Engineering
- Master of Science in Computational Data Science
- Master of Science in Computer Science
- Master of Science in Civil and Infrastructural Engineering
- Master of Science in Electrical and Computer Engineering
- Master of Science in Engineering Systems and Management
- Master of Science in Health Systems Management
- Master of Science in Materials Science and Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Nuclear Engineering
(for UAE-Saudi nationals only)
- Master of Science in Petroleum Engineering
- Master of Engineering in Health, Safety and Environmental Engineering



ONLINE APPLICATION IS OPEN
FOR Fall 2024 since December 1,

SCIENCE & ART DEGREE PROGRAMS

- Master of Science in Applied Chemistry
- Master of Science in Petroleum Geoscience
- Master of Science in Medical Physics
- Master of Arts in International and Civil Security*
- Doctor of Philosophy in Chemistry
- Doctor of Philosophy in Physics
- Doctor of Philosophy in Mathematics
- Doctor of Philosophy in Earth Sciences
- Doctor of Philosophy in Molecular Life Sciences

* UAE Nationals only

MSc: Structure & Requirements

Category	Credits
Program Core (4 Courses)	12
Program Electives (3 Courses)	9
Seminar in Research Methods	0
Master's Thesis	9
Total	30

Duration:

- **Full-Time:** 2→1 Year * (12 credits per semester)
4 courses per semester & thesis defense in summer
- **Part-Time:** 3→2 Years (6-9 credits per semester)

* Minimum 1 Year for Full-time MSc Student

Regular PhD (with MSc): Structure & Requirements

Category	Credits
Program Core – 1 Technical Course	3
Program Electives (7 Courses)	21
PhD Research Seminars (I & II)	0
PhD Research Dissertation	36
Total	60

Duration: 4 Years [\(Continued PhD from MSc\)](#)

Progression Requirements:

- Written Qualifying Exam (Year 1)
- Research Proposal Exam (Year 2)

Overseas Internship (6 months in Year 3)

Direct PhD (with BSc only): Structure & Requirements

Category – Study Plan	Credits
Program Core Course – ENGR 701 Research Methods in Engineering	3
Program Core Courses – 3 Technical Courses (mixed MSc/PhD)	9
Program Elective Courses (8 * 3 credits)	24
PhD Research Seminars (I & II) – ENGR 703/704	0
Written Qualifying Exam – ENGR 795 (Year 2)*	0
Research Proposal Exam – ENGR 796 (Year 3)	0
PhD Research Dissertation – ENGR 799	36
Total	72

Duration: Full-Time 5 Years after BSc Overseas Internship (6-12 months, Year 3-4)

* UAE-MoE-CAA Requirement for BSc graduates under Direct PhD scheme

Khalifa University Research Priorities

Energy		Water & Environment	Health	[Aero]space
<p>Power</p> <ul style="list-style-type: none"> • Solar energy • Nuclear energy • Electrical power transmission and distribution • Energy storage (excluding hydrogen) • Energy efficient cities and buildings 	<p>Fuels</p> <ul style="list-style-type: none"> • Sustainable fuels (low-carbon hydrocarbons and non-hydrocarbons) • Hydrogen and its derivatives • CO2 capture, utilization and storage 	<ul style="list-style-type: none"> • Desalination • Waste treatment and utilization (wastewater, industrial and municipal waste streams) • Environmental remote sensing 	<ul style="list-style-type: none"> • Omics (proteomics, genomics, metabolomics) • Medical technology (bio-robotics and medical devices) • Therapeutics (pharmacology, clinical toxicology, virology and tissue culture) • Analytics (epidemiology, biostatistics and modeling, bioinformatics, bio-signal processing) • Management and operations 	<ul style="list-style-type: none"> • Aerostructures • Maintenance repair and overhaul (MRO) • Space telecommunications, access and exploration (technology development and science applications) • Earth observation
<p>Advanced Materials & Manufacturing</p>	<ul style="list-style-type: none"> • Computational materials engineering • Composites • Catalysis • Enhanced materials systems (nanomaterials and nanocomposites, multifunctional materials, smart materials, metamaterials) • Additive manufacturing • Manufacturing automation 			
<p>Intelligent & Secure Digital Systems</p>	<p>Robotics, Artificial Intelligence and Data Science</p> <ul style="list-style-type: none"> • Autonomous systems (aerial, ground and marine) • Machine learning • Computer vision, image and video analysis and processing • Data Science 	<p>Information and Communication Technologies (ICT)</p> <ul style="list-style-type: none"> • Secure systems and networks (cyber security and blockchain) • Next Generation Networks (NGNs) and NGN-enabled ICT applications and services • System-on-Chip (SoC) technology • Sensors 		
<p>Emerging Topics & Fundamental Science</p>				

RESEARCH CENTERS

1. 6G Research Center (6GRC)
2. Advanced Power and Energy Center (APEC)
3. Advanced Research and Innovation Center (ARIC-Aerospace)
4. Center for Biotechnology (BTC)
5. Center for Catalysis and Separation (CeCaS)
6. Center for Cyber-Physical Systems (C2PS)
7. Center for Membranes and Advanced Water Technology (CMAT)
8. Emirates ICT Innovation Center (EBTIC)
9. Emirates Nuclear Technology Center (ENTC)
10. KU Center for Autonomous Robotic Systems (KUCARS)
11. Research and Innovation Center on CO₂ and Hydrogen (RICH)
12. **Research & Innovation Center for Graphene and 2D Materials (RIC2D)**

RESEARCH GROUPS

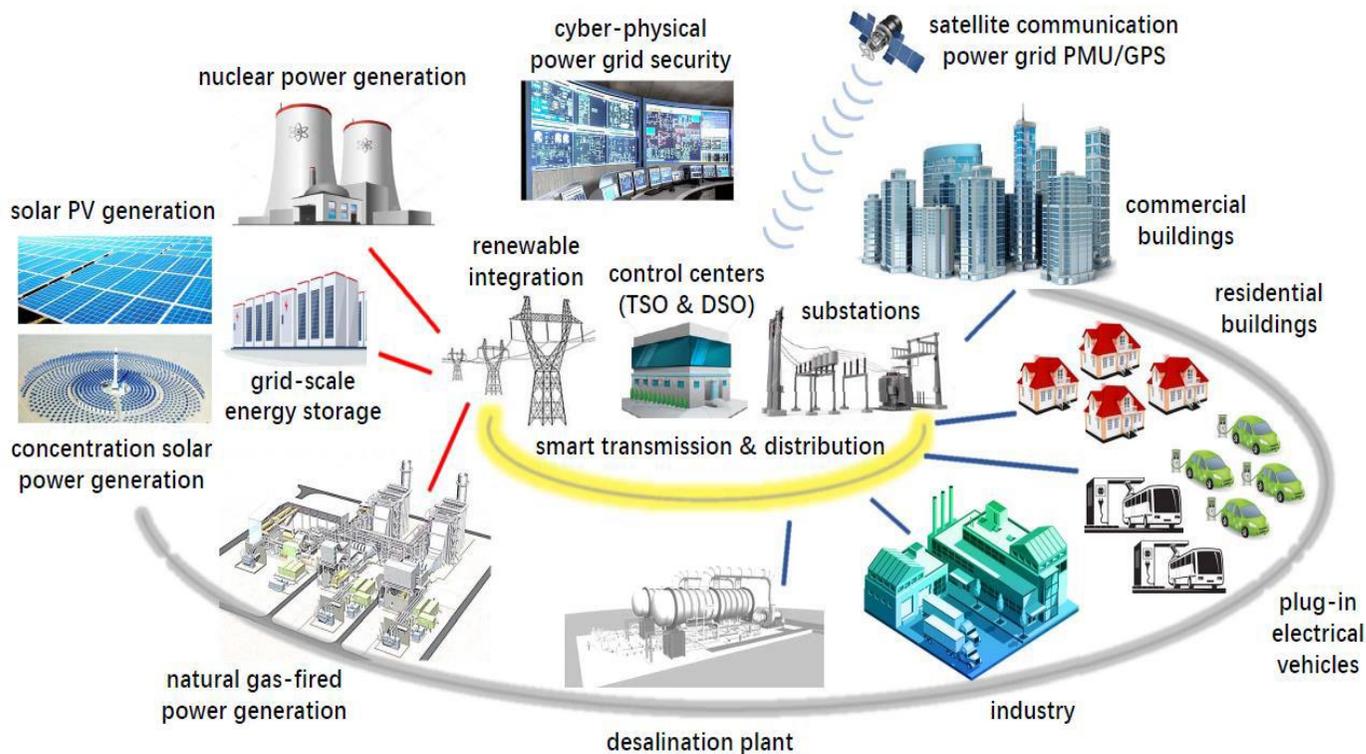
1. Healthcare Engineering Innovation Group
2. Advanced Digital & Additive Manufacturing Group
3. Socio-Technical Systems Group
(Digital Supply Chain & Operations Management)
4. Space & Planetary Sciences Group

<https://www.ku.ac.ae/research/research-center>



Virtual Research Institute for Sustainable Energy Production, Storage, and Utilization aims to develop advanced renewable energy and sustainable technologies that pave the way to modernize Abu Dhabi's energy infrastructure, ensuring stability, preserving reliability, and meeting economic objectives with high level of flexibility.

Academia-Industry-Government Collaboration: Over 30 professors and many researchers from Khalifa University (Hub), New York Univ., Abu Dhabi Univ. and global partner like Massachusetts Institute Tech., India Institute Tech.



VRI Research Themes:

- Theme 1: Sustainable Power Generation
- Theme 2: Grid-Scale Energy Storage
- Theme 3: Renewable Energy Integration
- Theme 4: Smart Transmission-Distribution
- Theme 5: Demand-side Energy Efficiency
- Theme 6: Sustainable Energy Policy and Techno-Socio-Economics
- Theme 7: Education and Training

KU Innovation Entrepreneurship



Khalifa Innovation Center (KIC)



مركز خليفة للابتكار
Khalifa INNOVATION CENTER

PROMOTING INNOVATION,
RESEARCH AND DEVELOPMENT

- **Khalifa Innovation Center** is an innovative incubation center that supports high tech/high impact start-ups, new and improved products that are nurtured and brought to the market
- **Khalifa Innovation Center** was launched as a center of excellence to boost the Emirati industry. This directly supports the UAE 2021 vision of transitioning into a knowledge-based economy, promoting innovation, research and development



Selected Industry Government And Academic Partnerships

GOVERNMENT							
							
							
INDUSTRY							
							
							
							
ACADEMIC							
							AND GROWING ...

KU's Global Partnership

Strategic Partner Univ. Rankings	US News & World Report – 2023	QS – 2024	Times High Education – 2024	Shanghai ARWU – 2023	Remark
Massachusetts Institute of Technology	2	1	3	3	Eng., Art & Sci. Colleges
University of Maryland	57	164	114	50	Eng., Art & Sci. Colleges
KU Leuven	50	61	45	86	Eng., Art, Sci. & Medic. Colleges
University of Manchester	63	32	51	41	Eng., Art & Sci., Medic. Colleges
Tsinghua University	23	25	12	22	Eng., Art & Sci., Medic. Colleges
Korea Adv. Inst. Sci. & Tech.	282	56	83	201-300	Eng., Sci. Colleges

Golden Visa categories:

Investor Visa

- Real estate investors
- Non-real estate investors

Entrepreneur Visa

- Entrepreneurs

Outstanding Student Visa

- High school students
- [University graduates](#)

Special Talent Visa

- Doctors
- Inventors
- Scientists
- Creative intellectuals and artists
- Executive directors
- Specialists in priority educat. areas
- Specialists in the field of early childhood & child dev. education
- Sportsmen
- [PhD holders](#)
- Specialists in engineering & science

Golden Visa

Overview for
government entities

10-Year Working Visa

GOLDEN VISA

وزارة التنمية الاقتصادية
DEPARTMENT OF ECONOMIC DEVELOPMENT



GRADUATE SCHOLARSHIP & ADMISSION

**KHALIFA
UNIVERSITY**

Expand
(b) P_e (c)

$$(a) \dot{m} = (0.68)$$

$$(c) \frac{T_o}{T_e} = \left[1 + \frac{k-1}{2} M^2 \right]$$

$$\left[\frac{2 + (k-1) M^2}{1.728 M^2} \right]$$

(d) $P_{throat} - P_e$

Khalifa University PhD Scholarship for Expats

PhD Scholarship	Work Commitment (Research Path)	No Work Commitmt (Study Path)
Tier-I Full-time PhD	<p>Full coverage of tuition fees. Basic monthly stipend of 20,000 AED. Additional monthly allowance of 20,000 AED</p>	<p>Full coverage of tuition fees. Monthly stipend of 4,000 AED. Free University accommodation.</p>
Tier-II Full-time PhD	<p>Full coverage of tuition fees. Basic monthly stipend of 20,000 AED. Additional monthly allowance of 10,000 AED</p>	<p>75% waiver of tuition fees. Monthly stipend of 2,000 AED. Free University accommodation.</p>
Tier-III Full-time PhD	<p>75% waiver of tuition fees. Monthly stipend of 20,000 AED <u>Majority!</u></p>	<p>50% waiver of tuition fees. (PT St.) Free University accommodation.</p>
Tier-IV Full-time PhD	<p>50% waiver of tuition fees. Free University accommodation.</p>	<p>25% waiver of tuition fees. (PT St.) Free University accommodation.</p>

Other Benefits

- Medical insurance coverage for students under the Khalifa University visa
- Mobilization and demobilization flight tickets from/to home country
- Support to attend flagship international research conferences

Partner Scholarship and Student Exchange

KU-China Scholarship Council Joint PhD Scholarship Program (2019-2028)

Students from Mainland China pursuing PhD at Khalifa University: 30 PhD scholarships every year

Monthly Stipend (KU\$2500 + CSC\$2000) + Free Accommodation + Free Insurance + Flight Tickets

Exchange Students: Waiving tuition & Free student dorm from KU; Stipend from CSC/home univ.



(Tsinghua Univ., Beijing Inst. Tech, China Univ. Petroleum, Sichuan Univ, Univ Electronic Sci Tech China, Northwest. Poly Univ., others)

Academic Cooperation Agreement with Global Partner Institutions

- **PhD Scholarship**
 - Joint CSC-KU*
 - KU Scholarship
- **Student Exchange (1-2 semesters)**
- **Winter/Summer Camp (2 weeks self-financed)**
- **Faculty Exchange (co-supervision)**

*Chinese Applicants in Engineering, Science & Math

ADMISSION REQUIREMENTS

Direct PhD: BSc → PhD 5 Years, with a **min CGPA of 3.5 out of 4.0**, or equivalent
Regular PhD: MSc → PhD 4 Years, with a **min CGPA of 3.25 (MSc) & 3.0 (BSc)**

SCHOLARSHIP STUDENTS Requirement for DOCTORATE DEGREE PROGRAM (with BSc)

- Completion of a Bachelor’s degree in a relevant discipline with a **minimum Cumulative Grade Point Average (CGPA) of 3.5 out of 4.0**, or equivalent from a reputable accredited institution (for Bachelor to PhD direct admission)
- A minimum level of English proficiency in the form of :
 - ✓ **iBT TOEFL (internet-based test) score of 91 or equivalent**, or
 - ✓ Overall **academic IELTS score of 6.5**, or
 - ✓ **1550 EmSAT English score**
- A **minimum quantitative score of 150 in the general Graduate Record Examination (GRE)** is required for admission to all programs. Applicants for all programs should attempt all three sections of the GRE
- At least two referee recommendations (online form)
- **Statement of Purpose & Research Statement** (500-1,000 words)
- Admission interview by faculty panel

Requirement for DOCTORATE DEGREE PROGRAM (with MSc)

- Completion of a Master’s degree in a relevant discipline with a **minimum CGPA of 3.25 out of 4.0**, or equivalent from a reputable accredited institution.
- Completion of a Bachelor’s degree with a **minimum CGPA of 3.0 out of 4.0**,
- GRE (min 150) & English proficiency **iBT TOEFL ≥ 91** or **IELTS ≥ 6.5** or **EmSAT 1550**
- At least two reference letters (online)
- **Statements of Purpose & Research.**
- Admission interview by faculty panel.

- Direct PhD Scholarship (5 years)
- Regular PhD Scholarship (4 years)
- China Scholarship Council – KU Joint PhD Scholarship (4 years)
- Master’s Scholarship (1 year)

EXCHANGE STUDENTS Requirement

- Pursuing a Bachelor/Master/Doctorate degree in a relevant discipline with a **minimum CGPA of 3.25 out of 4.0**, or equivalent from a partner institution.
- A minimum level of English proficiency (**IELTS/CET6 > 450**)
- Interview and invitation by KU faculty member, **Offer from KU Int. Student Office & College**
- **Institutional Coop. Agreement***

VISITING STUDENTS
 invited by KU Faculty via Research Visitor Request
 (no course registration)

MSC ADMISSION REQUIREMENTS

SCHOLARSHIP STUDENTS Requirement for MASTER DEGREE PROGRAM (with BSc)

- Completion of a Bachelor’s degree in a relevant discipline with a **minimum Cumulative Grade Point Average (CGPA) of 3.0 out of 4.0**, or equivalent (e.g. an upper second-class honors in a UK-style degree, from a reputable accredited institution)
- A minimum level of English proficiency in the form of :
 - ✓ **iBT TOEFL (internet-based test) score of 91 or equivalent**, or
 - ✓ Overall **academic IELTS score of 6.5**, or
 - ✓ **1550 EmSAT English score**
- A **minimum quantitative score of 150 in the general Graduate Record Examination (GRE)** is required for admission to all programs. Applicants for all programs should attempt all three sections of the GRE.
- At least two referee recommendations (online form)
- **Statement of Purpose**
- Admission interview by faculty panel

The **MSc Scholarship** supports international students pursuing a Master’s degree at Khalifa University.

MSc Scholarship	No Work Commitment
Tier-I and Tier-II Full-time Master Student	Full coverage of tuition fees. Textbooks provided by the University. Free University accommodation.
Tier-III Full-time Master Student	50% waiver of tuition fees. Textbooks provided by the University.
Tier-IV Full-time Master Student	Textbooks provided by the University.

Other Benefits (no Monthly Stipend for MSc Students)

- Medical insurance coverage for full-time international students sponsored by Khalifa University.
- Mobilization and demobilization flights (between home country and Abu Dhabi) for full-time overseas international students, subject to approval.
- Coverage of UAE visa application fees for full-time international students.

Student Life



Residence

- SAN Campus for male students
- Umm lulu for female students
- Separate bedroom and bathroom
- Shared kitchen & single bedroom



Male residence (kitchen and bedroom)



Female residence (Living Room & Sea View)



Food

On campus: Canteen, Starbucks, Subway
 Out campus: Mid-East or Chinese Cuisine



宫保鸡丁(四面八方)、馄饨 (鼎泰丰)



温超 WEMART



Sports

On campus: gym/courts ball games
 Out campus: beach, desert ...



Thank you – Q & A?

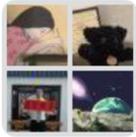
TO APPLY, Go To
www.ku.ac.ae/graduate-admissions

Online PhD Application for **Spring 2025** – **Deadline: November 15, 2024**

✉ Email : pgadmission@ku.ac.ae

Deadline for Joint KU-CSC Scholarship
February 15, 2025

FALL 2024 APPLICATION ROUNDS	FALL 2024 APPLICATION DEADLINE FOR THE MASTER'S & DOCTORAL PROGRAMS	FALL 2024 NOTIFICATION OF ADMISSION DECISIONS
Round #1 (Priority Admission)	15 February 2024 (11:59pm UAE time)	20 March 2024 (UAE time)
Round #2 (Regular Admission)	30 April 2024 (11:59pm UAE time)	30 May 2024 (UAE time)



Group: 哈利法大学硕博申请
2025



Valid until 5/22 and will update upon joining
group



Nas Daily

Article Talk [Harvard University](#)

🗨️ [Alumnus](#) ☆ 🛡️

Nuseir Yassin (Arabic: **نصير ياسين**; Hebrew: **נוסעיר יאסין**; born 9 February 1992) is an Arab-Israeli vlogger who is most notable for creating over 1,000 daily, one-minute-long videos on Facebook, TikTok and Instagram under the page **Nas Daily**.

Nuseir Yassin



Yassin in 2018



KU Winter Youth Camp

جامعة خليفة
Khalifa University

جامعة خليفة
Khalifa University



جامعة قطر
Qatar University