

Khalifa University of Science and Technology

Facts at a Glance

Establishment

- February 2017, Abu Dhabi
- Came into existence following the merger of the Petroleum Institute (PI), the Masdar Institute of Science and Technology (MI) and the Khalifa University of Science, Technology and Research (KUSTAR)

Rankings

- Ranked top in the UAE and 114th globally in 'Engineering' subject in the US News & World Report's, 2020 Best Global Universities rankings – November 2019
- Ranked first in the UAE, second in the Middle East and North Africa (MENA) region and among the top 200 globally in the Times Higher Education (THE) World University Rankings 2020 by Subject: Engineering and Technology – October 2019
- First-ever in the UAE to be placed among the top 300 academic institutions globally by the QS (Quacquarelli Symonds) World University Rankings 2020 – June 2019
- Ranked 38th out of 351 academic institutions in the Times Higher Education (THE) 2019 Young University Rankings – June 2019
- Placed 28th in the Times Higher Education (THE) Asia University Rankings 2019 – May 2019
- January 2019, Khalifa University was ranked 13th in the Times Higher Education (THE) Emerging Economies University Rankings
- In November 2018, Khalifa University was ranked within the 176–200 band (among the top 200) in the 2019 Times Higher Education (THE) World University Subject Rankings for Engineering & Technology

Campuses

- Two campuses; one main campus and a satellite campus in Sas Al Nakhl.
- Over 250,000 square meters in covered unit space
- State-of-the-art research facilities and hi-tech equipment
- Multi-cultural environment with vibrant and rich student life

Research Institutes

Masdar Institute, Petroleum Institute and the Artificial Intelligence Institute are research institutes, serving as interdisciplinary research units focused on long-term strategic priorities, engaging a critical mass of faculty. KU's hydrocarbon production and exploration focused research centers are grouped under PI, which also connects fundamental research with practical application through partnerships with relevant local and international organizations like ADNOC.

KU's sustainability-focused research centers are primarily grouped under MI, and it also connects fundamental research with practical application through partnerships with relevant local and international organizations like the energy company Masdar.

At the same time, KU's research into robotics, artificial intelligence (AI), data science and information and communication technologies are grouped under the AI Institute. Its focus areas include academic programs in artificial intelligence development, continuous professional development and research centers.

Degree Programs

- **12** Bachelor's degree programs
- **16** Master's degree programs
- **2** Doctoral degree (PhD) programs (with 12 Concentrations)

Colleges

Academics are organized under three colleges – the College of Engineering, College of Arts and Sciences and the College of Medicine and Health Sciences.

(The total number of B.Sc. programs offered by the CoAS is indeed four (4):

1. B.Sc. Petroleum Geosciences
2. B.Sc. Applied Mathematics & Statistics
3. B.Sc. Chemistry
4. B.Sc. Physics

Faculty and Staff

- 382 faculty from over 49 countries
- Student to faculty ratio: 8 to 1

Students:

- Total number of students: 3,461
- Total number of nationalities: 51
- Percentage of females: 60%

Research

- Masdar Institute, Petroleum Institute and the AI Institute serve as research institutes.
- **228** laboratories with state-of-the-art equipment investigating subjects ranging from artificial intelligence and robotics to clean energy, hydrocarbons and aerospace.
- **3** field research projects for solar and building technologies development and bioenergy production.
- **20 core research centers** exploring the sectors and challenges of critical importance to the UAE's knowledge economy transformation.

Masdar Institute

Research Center for Renewable Energy Mapping and Assessment (ReCREMA)

Sustainable Bioenergy Research Consortium (SBRC)

Advanced Power and Energy Center (APEC)

Center for Membranes and Advanced Water Technology (CMAT)

Research and Innovation Center on CO₂ and Hydrogen

Petroleum Institute Research Centers

Gas Research Center (GRC)

Center for Catalysis and Separations (CeCaS)

Emirates Nuclear Technology Center (NTC)

Main Campus Research Centers

Aerospace Research and Innovation Center (ARIC)

Healthcare Engineering Innovation Center (HEIC)

Khalifa University Center for Biotechnology (BTC)

System-on-Chip Center (SoCC)

KU Center for Cyber-Physical Systems (C2PS)

KU Center for Autonomous Robotic Systems (KUCARS)

Emirates ICT Innovation Center (EBTIC)

Digital Supply Chain and Operations Management

Advanced Digital and Additive Manufacturing (ADAM) Center

KU-KASIT Joint Research Center

FACILITIES

- ADNOC Research and Innovation Center (ADRIC)
- Masdar Institute Solar Platform (MISP)
- Masdar Institute Field Station (MIFS)

Projects:

Center of Excellence on RF/5G Communications

Center of Excellence on Integrated Photonics

LABS: (Sponsored)

- KU-Alibaba Joint Lab of AI Clean Energy
- YahSat Space Lab

Intellectual Property (January 2020)

- Issued Patents: 167
- Patent Applications Filed: 228
- Invention disclosures: 417

Research Publications

- Articles: +9000
- Conference papers: +3,789
- Book chapters: +310
- Books: +39
- Citations: +100,000
- 3:5 publications and 148 citations per faculty
- Nearly 40% of publications in top 10% of scientific journals

- Major research agreements with local and international companies such as Etisalat, BT, Takreer, Strata, ADNOC, Mubadala, Etihad Airways, Emirates Global Aluminum, Boeing, Lockheed Martin, Northrop Grumman, and BP,
- Over US\$80 million in industry and government sponsored research contracts with more than 50 organizations based in the UAE and worldwide.

Library Resources

- **4 complete libraries, including 36 study rooms; 226 public access computers**
 - **100,000+** print books
 - **445,000+** e-books
 - **60,000+** e-journals
 - **350** online databases