



# Education Collaboration with UAE and KSA

Experience of KAIST

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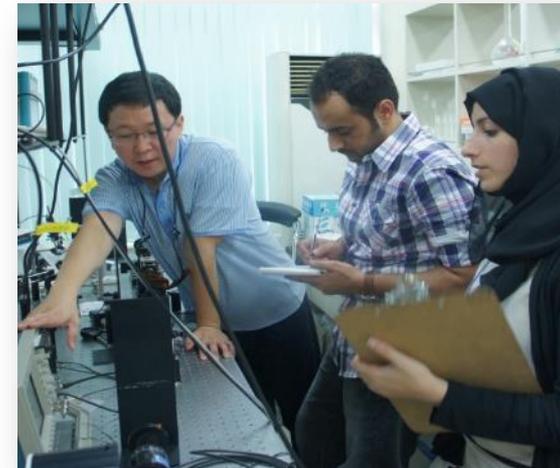
# Khalifa University -2010

- **KAIST support for Khalifa University to establish MS Program in Nuclear Engineering**
  - Curriculum and syllabus development
  - Accreditation document preparation
  - Assistance in Khalifa University faculty hiring
- **Dispatch of KAIST faculties**
  - 4 KAIST Nuclear Eng. professors dispatched to Khalifa University for a year to help Khalifa Univ. set up the nuclear engineering program
  - 2 batches 2010-2012
- **Undergraduate education**
  - 40 KU undergraduates visited KAIST (July 2010)



# Khalifa University -2011

- **Lectures at ENEC by the KAIST professors dispatched at Khalifa University: PSAR (Preliminary Safety Analysis Report) and Engineering Fundamentals**
- **Graduate program**
  - Accreditation of Nuclear Engineering MS Program at KU and elevation to the department level (March 2011)
  - KAIST Nuclear Engineering professors seconded to KU to replace the four who returned home (September 2011)
  - One KAIST professor loaned to KU to establish cyber security curriculum (September 2011)
  - 3 KAIST Ph.D. students and 1 postdoctoral fellow loaned to KU (March 2011)
- **Undergraduate**
  - 40 KU undergraduates visited KAIST (June 2011)
- **1st annual technical field trip to KAIST**
  - KU nuclear engineering graduate students (July 2011)



# Khalifa University -Outcomes

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## ■ Program development

- Curriculum
- Professors hiring
- Teaching
- Supervising researches
  - The first international journal paper authored by a KU student in Nuclear Engineering Department of KU

## ■ Researches

- Laboratories
- Lab researchers

## ■ Technical tour

- Korean nuclear facilities

## ■ Lecture programs

- KAIST-ENEC Global Nuclear Leadership Program
- Internship at KAIST labs

# Khalifa University - Today

- Currently we are collaborating for research



2014

Research	No. of Projects	Budget	Research Areas
Joint Int'l Research	15	US\$1,700,000 (by KAIST)	Nuclear Engineering
Seed Money Project	7	US\$470,000 (by KAIST)	Non-Nuclear Engineering (Globally important research areas)
Matching Fund Project	10	10 projects funded by KAIST 3 projects funded by KU	Phase 2 Seed Money projects

# The First KAIST alumnus of UAE nationality

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- Crown Prince of Abu Dhabi, Sheikh Mohammed, received an Honorary Doctorate Degree from KAIST (May 2010)



# K.A. CARE

- **King Abdullah City for Atomic and Renewable Energy**
- **2014 KAIST-K.A.CARE Nuclear Engineering Intensive Course Program**
  - 3-week program
  - Lectures on nuclear physics, radiation application, reactor design and safety
- **Additional education program is under discussion**
- **Education of Saudi students in KAIST is under discussion**
  - Based on recent MOU



# Concluding Remarks

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- **Collaboration for education requires**
  - Funding
  - Time
  - Understanding
- **Planning phase involvement is important**
  - Human resource development
  - Educational program development
- **Job market**