

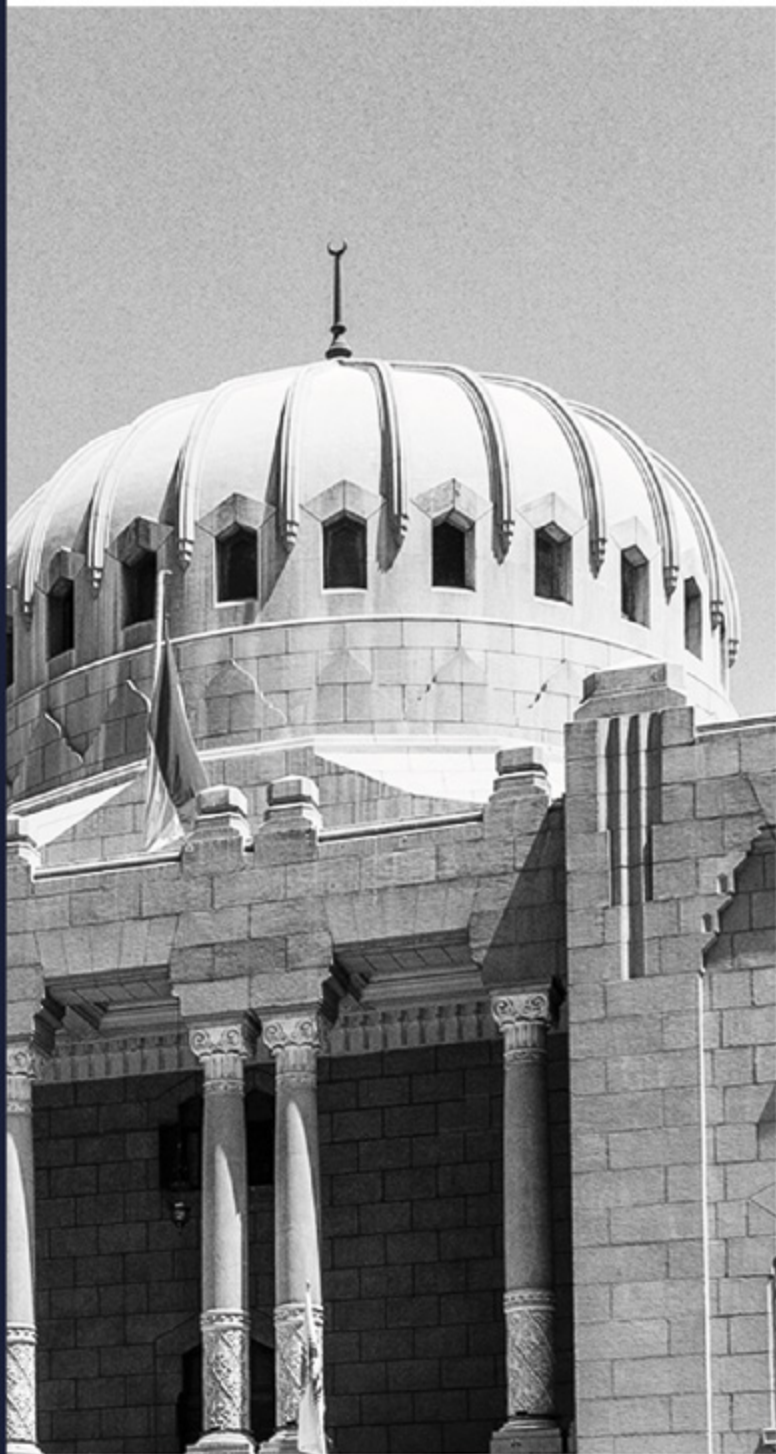


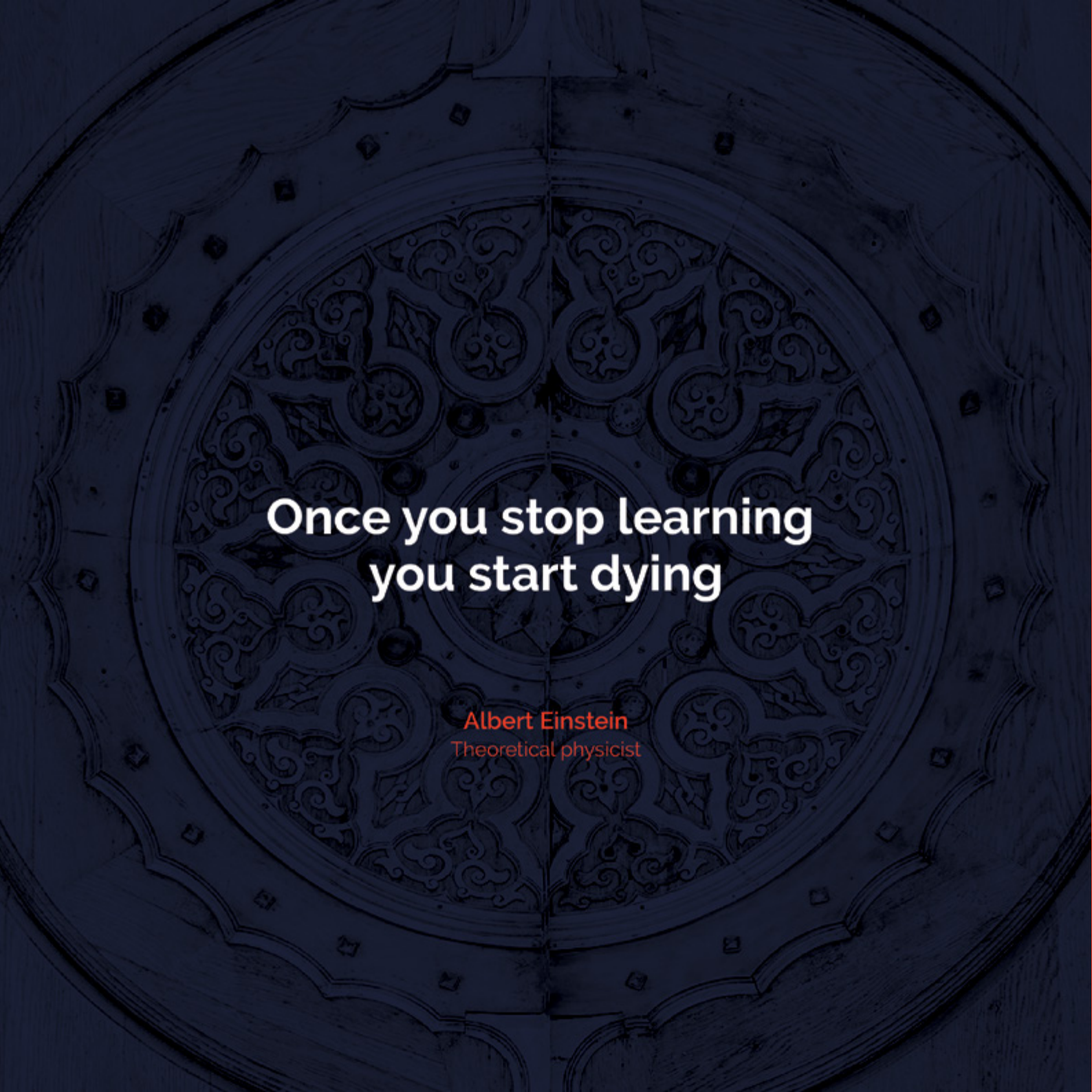
**FACULTY OF
ENGINEERING**
AIN SHAMS
UNIVERSITY

Faculty of Engineering Ain Shams University

This booklet provides
information regarding university
life of our prestigious faculty.

[www. eng.asu.edu.eg](http://www.eng.asu.edu.eg)





Once you stop learning
you start dying

Albert Einstein
Theoretical physicist



FACULTY OF
ENGINEERING
AIN SHAMS
UNIVERSITY

**Faculty of
Engineering**
Ain Shams
University

This booklet provides
information regarding university
life of our prestigious faculty.

[www. eng.asu.edu.eg](http://www.eng.asu.edu.eg)

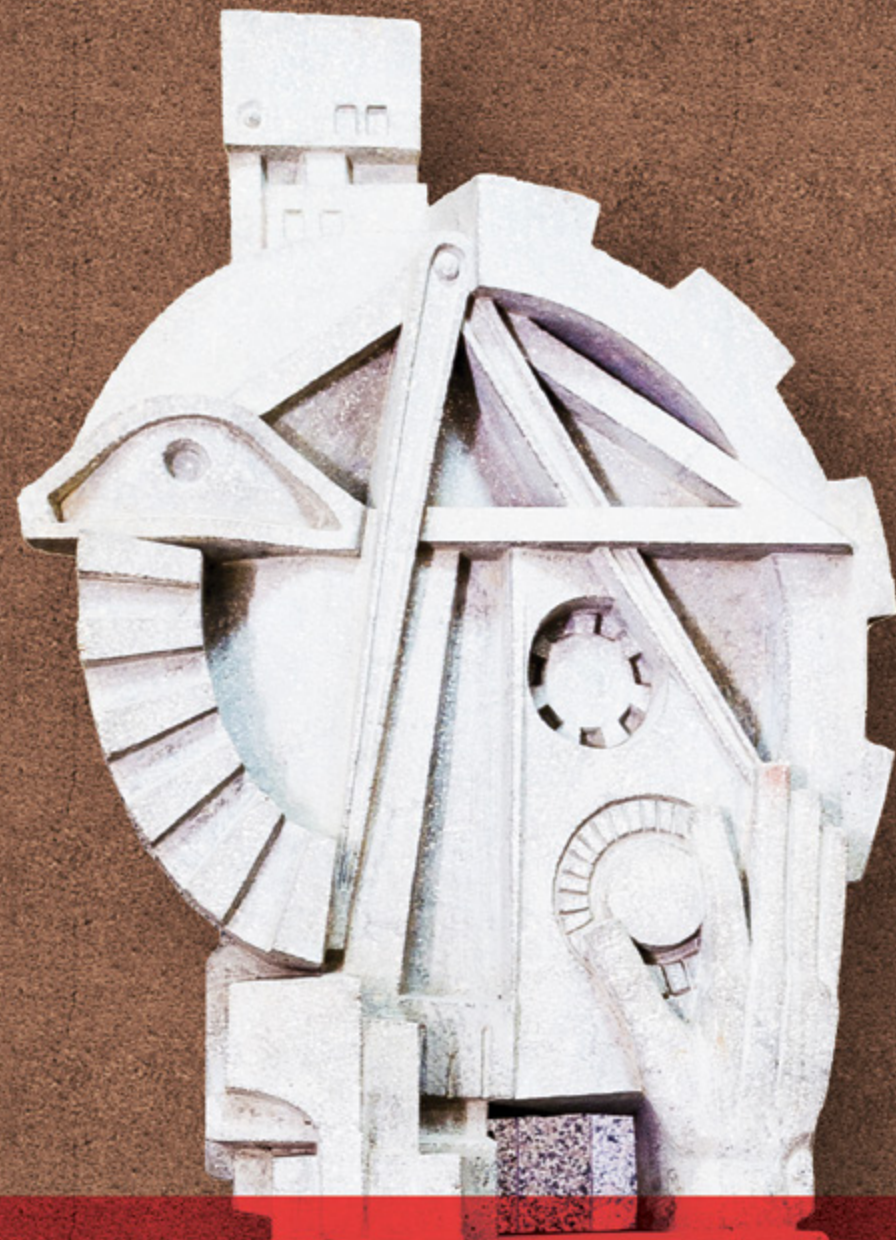


History

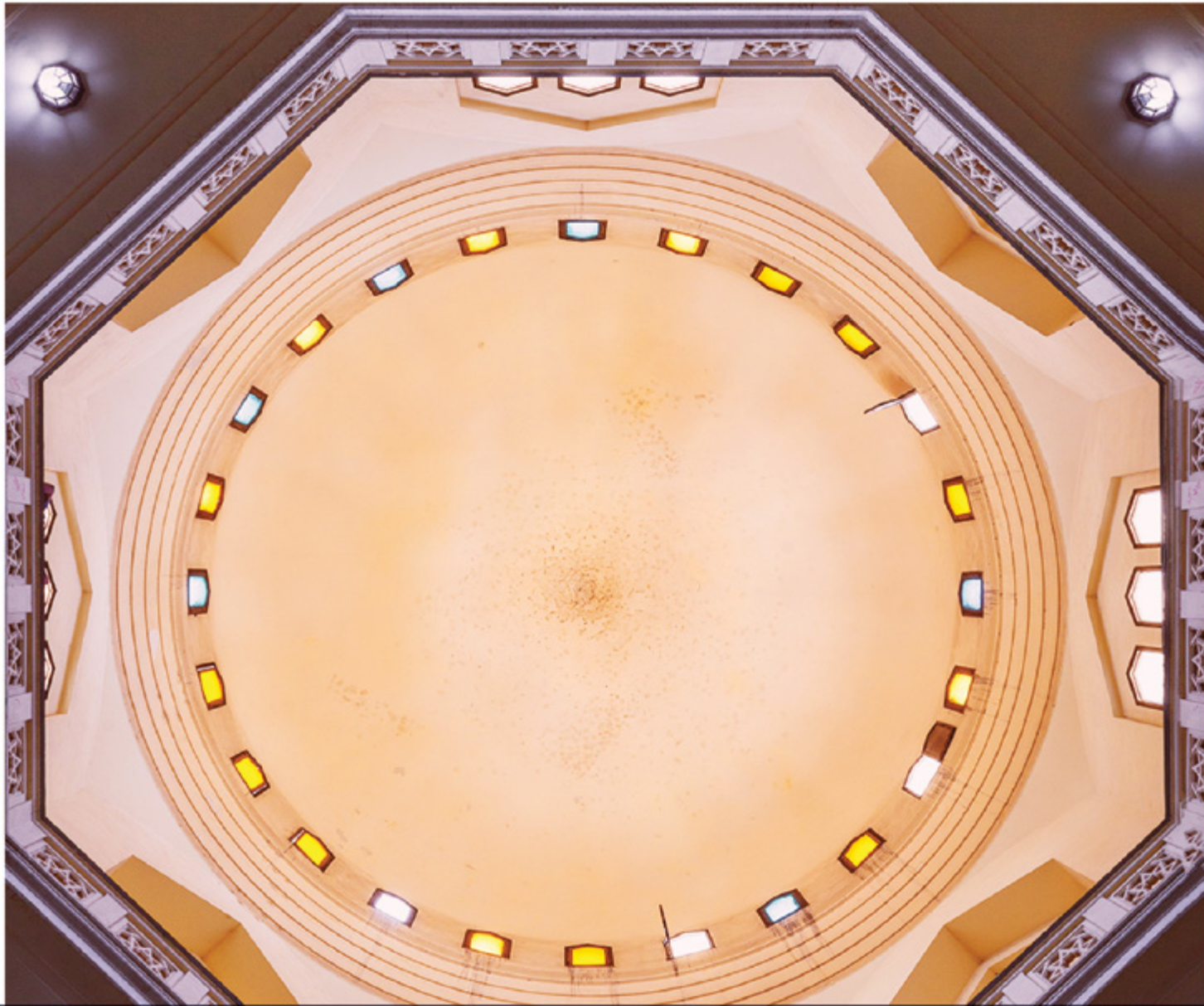
This engineering academic edifice had been transformed from being a high technical school established in 1839 to become one of the most renowned Faculties of Engineering in Egypt and in the Middle East since 1950.



we are the makers of our history



Since then, it has exercised a substantial influence on both Egyptian and world societies in Engineering disciplines



The classical dome of the main building.

the past few years testify to a massive academic and physical development. Academically, there has been a significant evolution of curriculum conjunction with teaching methodologies. Physically, the campus has witnessed a considerable upgrading of the infrastructure and landscape.



The movement of fountain and gate of the main entrance embrace the iconic legacy of the past, outstanding competence of the present and over whelming technological progress of the future. blending the past, present and future realis grants this faculty of engineering its evaluating distinction and eminence.

Why Faculty of Engineering Ain Shams University



- ✓ get a real head-start with your career with internships and trainings through our yearly employment fair
- ✓ Going global by offering overseas student exchange programs and getting a chance to exposure to different cultures whilst contributing to the academic degree.
- ✓ Make memories! Offering extra-curricular activities including groups and clubs that further develop students' interests and build their non-academic skills.
- ✓ Get on the track! We're evaluated as one of the most widespread on the research map amongst the worlds.
- ✓ State-of-the-art campus equipped with the latest and most advanced educational facilities surrounded by breathtaking urban spaces
- ✓ Choose your career. Offering broad range of options and programs that suit your needs.



Faculty of Engineering has been accredited by the National Authority for Quality Assurance and Accreditation of Education (NAQAAE) since June 2014. Hence, all academic programs follow the National Academic Reference Standards (NARS). We provide the opportunity for our undergraduate students to take a compulsory community services learning module. Most graduate programs are connected with industry practices and real fields of specialization. We try to create a practical learning environment. The Faculty of Engineering at Ain Shams University has to act as and be a role model for global changes in labor market.

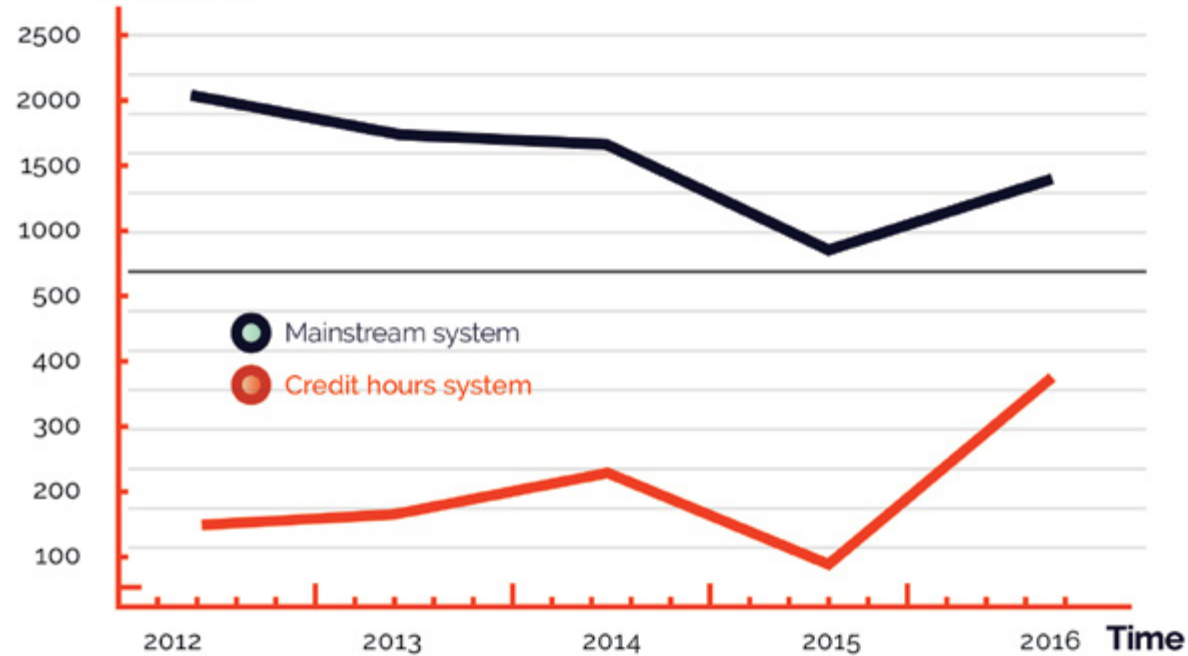
Prof. Dr. Mohamed Ayman Ahmed Ashour
Dean of Faculty of Engineering, Ain Shams University

Capacity

At the beginning of each academic year, there is an enrollment of approx. **14.000** under graduate students in this educational edifice. Despite that they belong to different departments and programs, they all hold the same ID and share the same spirit.

Numbers speak louder than words

Students



I'm happy to come from north Africa and to make my contribution to the society here in Germany which has brought me this award. It's equally a prove that Africans have the integrity and the abilities to execute even the most complex engineering or architectural piece.

Hani Azer

Egyptian civil engineer
Graduated from ASU-FE 1973

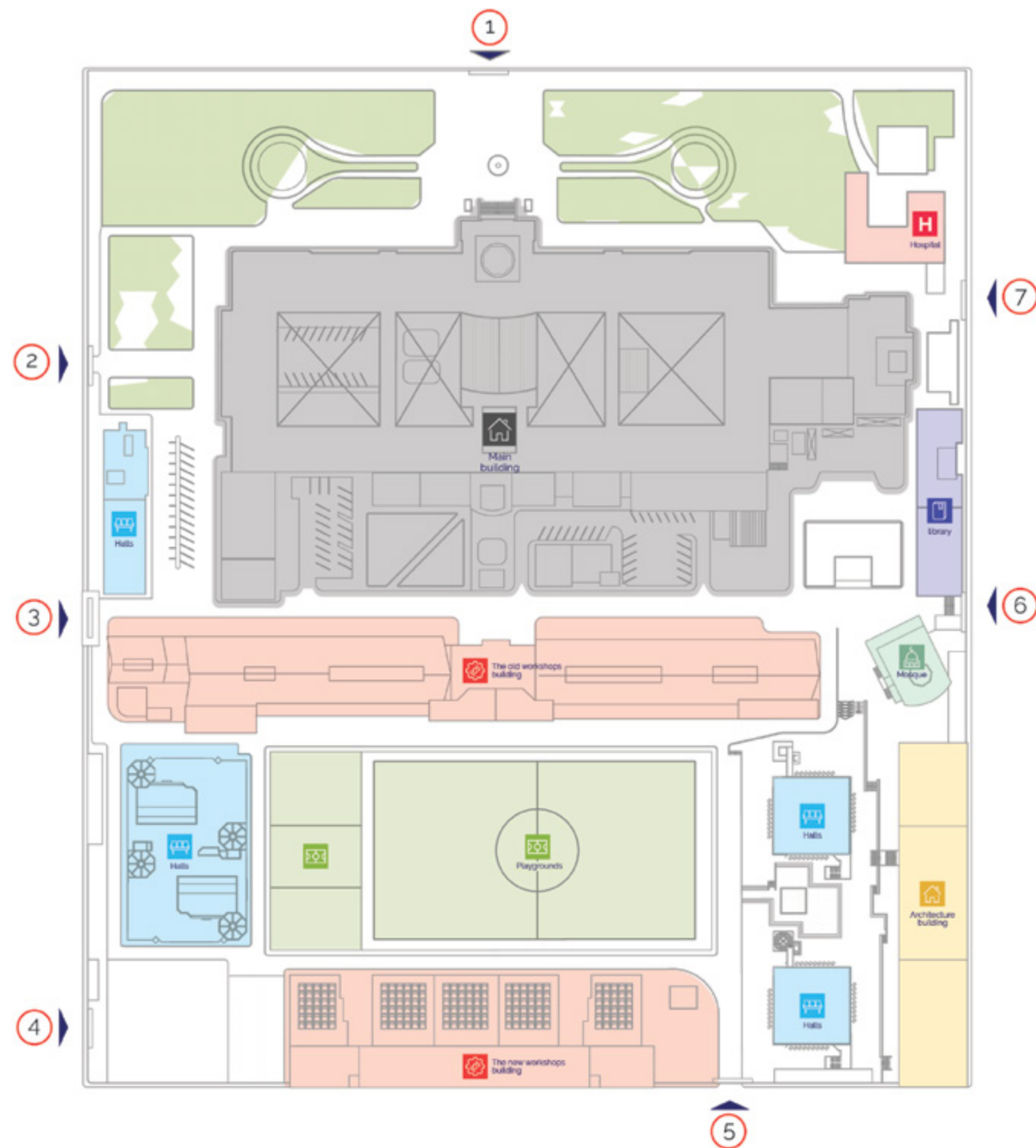
The art of
teaching
is the art
of assisting
discovery.

Mark Van Doren
American poet



Campus map

-  Halls
-  Architecture building
-  Main building
-  Workshops building
-  Hospital
-  Library
-  Playgrounds
-  Mosque



Mainstream program

There are ten consecutive semesters of centered engineering education where graduates acquire life-long capabilities of problem solving and decision making in various engineering fields.

If you choose to join our mainstream learning system, you'll apply in one of the following four major disciplines with thirteen specialized departments for four academic years, after passing through one preparatory year of basic engineering sciences:



Civil Engineering discipline

4 years of study



Architectural Engineering discipline

4 years of study



Electrical Engineering discipline

4 years of study



Mechanical Engineering discipline

4 years of study

Credit hours program

Interdisciplinary and responsiveness to market needs is the message we deliver through this progressive engineering learning system.

A system where the "future engineer" attains a high level of self-confidence in dealing with multi-facets engineering topics in response to the new technology requirements.

In CHEP, flexibility and self-adaptation is a priority in choosing your curriculum path through almost ten semesters in nine different fields and more to join.



Building Engineering program



Manufacturing Engineering program



Landscape architecture program



Communication systems Engineering program



Energy and renewable energy engineering program



Mathematics engineering and automation program



Materials engineering program



Computer engineering and software systems program



Environmental architecture and urbanism program

Great campus for great people

A photograph of a modern building interior, possibly a library or study area. The image is heavily stylized with a red and blue color scheme. The ceiling is a deep red, and the walls and lower levels are a vibrant blue. The architecture features clean lines and large windows. The text is overlaid on the right side of the image.

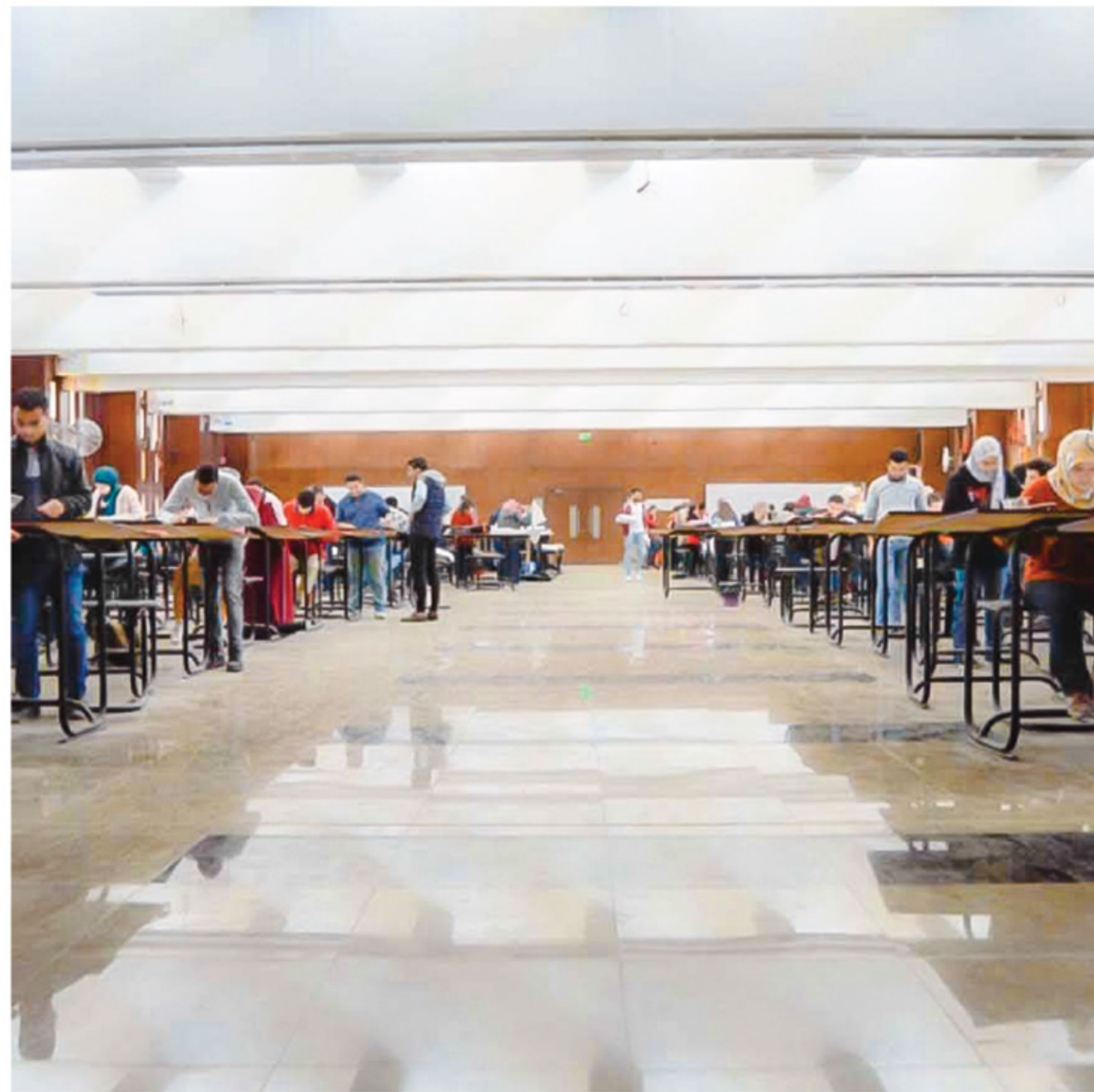
Through years, we've adapted our educational spaces to evolving needs of learning systems including new tools of projections and illustrations with suitable furniture in well-ventilated and/or air conditioned spaces with adequate natural and artificial lighting.



The only thing you absolutely have to know is the location of the library

Albert Einstein







Laboratories

Learning is never integrated without practicing, so providing our students with laboratories that serve all studying fields was one of the most important steps towards proper interactive learning.

The following labs are available for engineering students' experiments through the educational year.

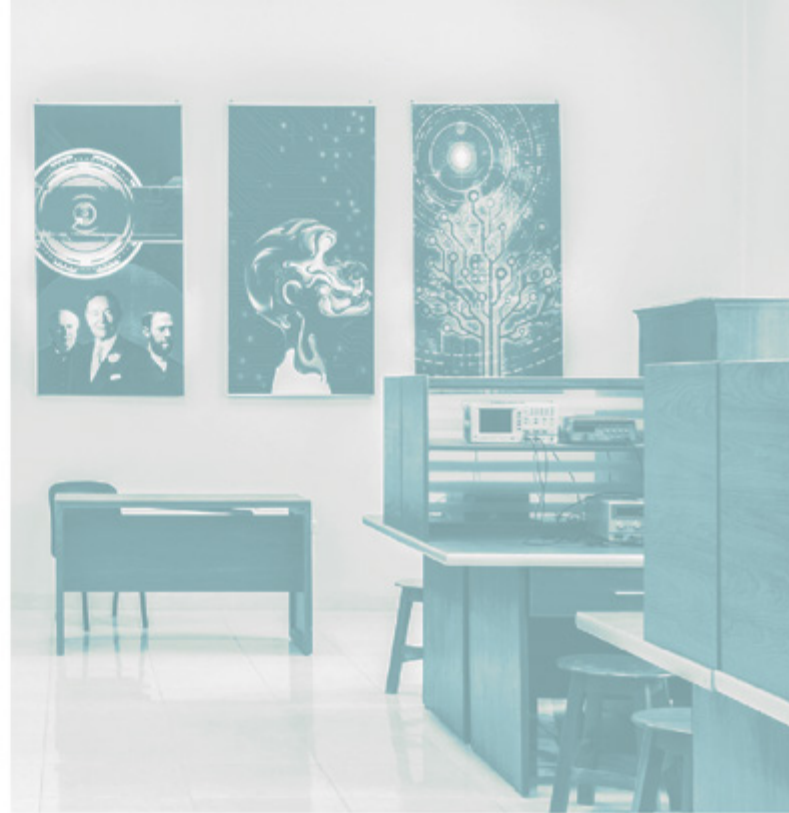
Preparatory

- Undergraduate physics labs
- Undergraduate chemistry labs
- Engineering mechanics lab
- Physics research lab
- Applied organics chemistry research lab
- Applied analytical chemistry research lab
- Seminar room

Civil

Public works

- Surveying labs
- Sanitary engineering lab
- Highway engineering lab
- Transportation engineering and traffic lab



Irrigation of hydraulics engineering

- Undergraduate lab
- Water quality lab
- GIS lab

Research lab

Structure

- Material testing lab
- Structural analysis lab
- Reinforced concrete testing lab
- Steel testing lab
- Geotechnical lab

Electrical

Electrical power and machines engineering program

- High voltage laboratory
- Power system laboratory
- Electrical machines laboratory
- Power electronics laboratory
- Computer laboratory for virtual experiments
- Programmable logic controller laboratory
- Advanced control laboratory
- Two labs for basic and fundamental courses
- Seminal room

Computer and systems engineering programs

- Two seminar rooms equipped with smart boards and data shows.
- Two computer programming labs
- Software engineering lab
- Computer networks lab
- Control systems lab
- Embedded systems lab
- Logic and control circuit applications labs
- Information system center
- EMC2 cloud computer lab

Computer and systems engineering programs

- Entreated circuits research lab
- Communication and signal processing research lab
- Microwave and antenna research lab
- Lasers and optical communications lab
- Electronics and communications technology unit
- Communications electronics research lab

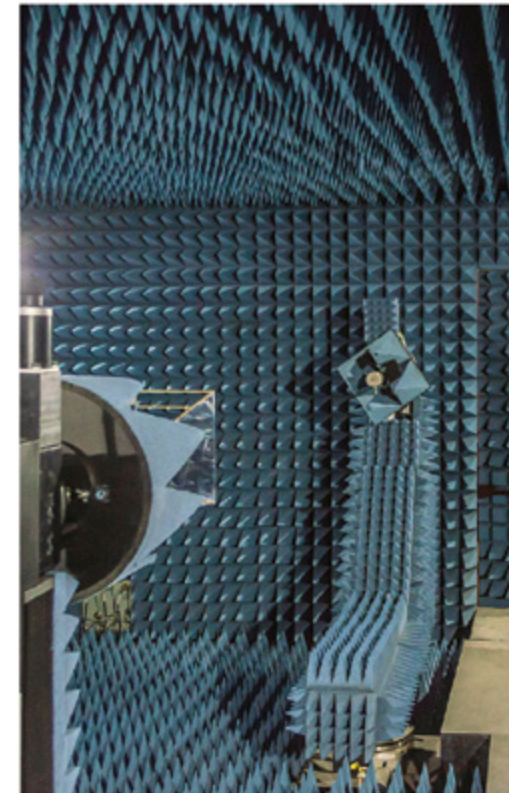


Architecture / urban design and planning program

- Drawing studios
- Computer labs
- Lecture rooms

Mechatronics

- Mechatronics lab
- Motion control lab
- Hydraulic and pneumatic lab
- Automatic control lab







Outside the lectures

A great attention is devoted to the aesthetic and comfort dimension of our faculty. This enriches the student savor of beauty then reflects on his talent and ability of creativity. Furthermore, it offers the opportunity to meet, relax and interact with other students. The sense of belonging to his faculty is one of the main objectives for the student to be inspired and to embrace the knowledge in an optimal environment.

Look deep into nature, and then you will understand everything better. —

Albert Einstein
Theoretical physicist



University life

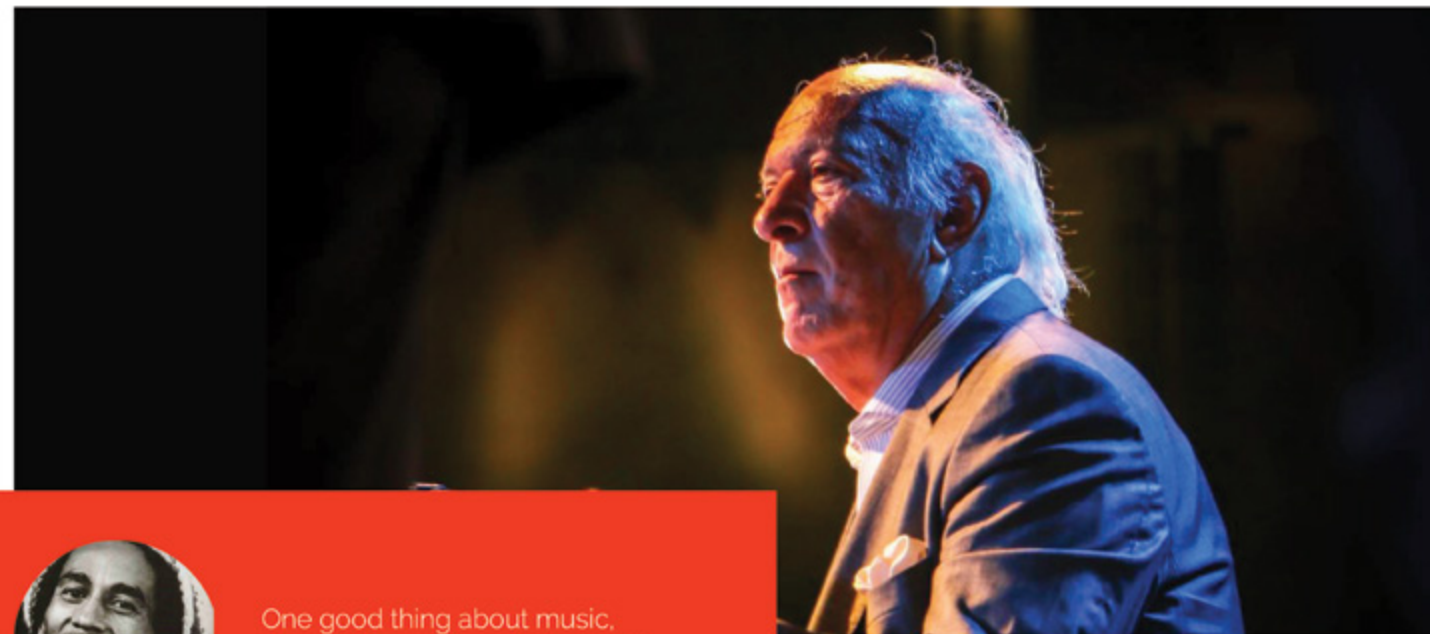
Parallel to his educational lifetime in the faculty, the student is offered multiple opportunities to practice sports, cultural, entertainment and social activities which refine his talents and provide other dimensions to his personality and readiness for the upcoming professional life.

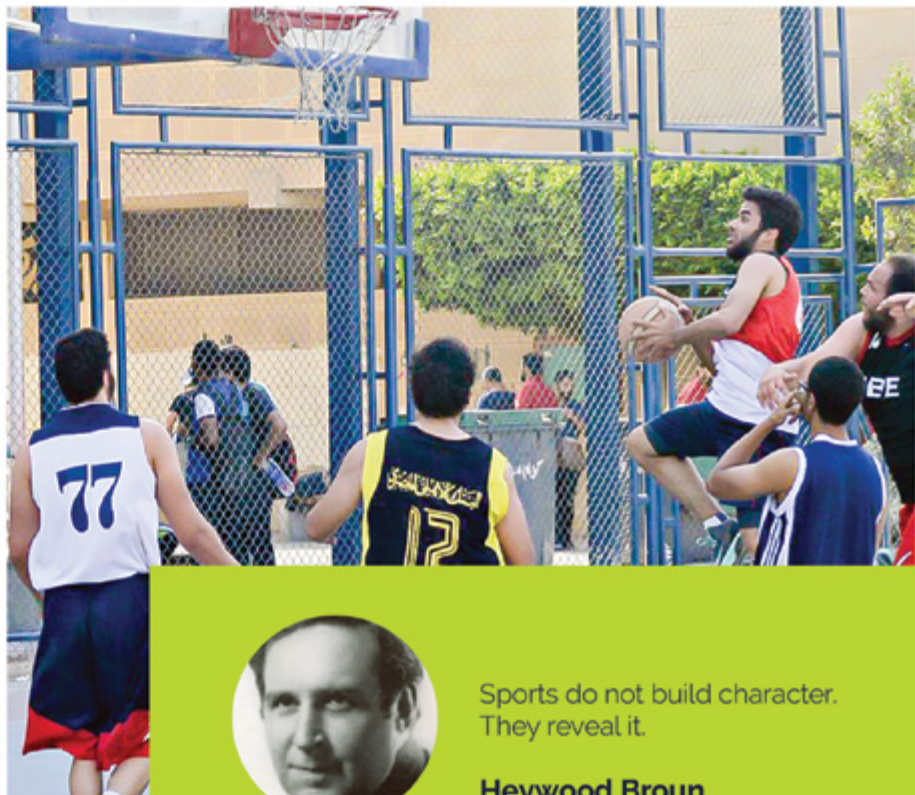
there is something for everyone



One good thing about music,
when it hits you, you feel no pain.

Bob Marley





Sports do not build character.
They reveal it.

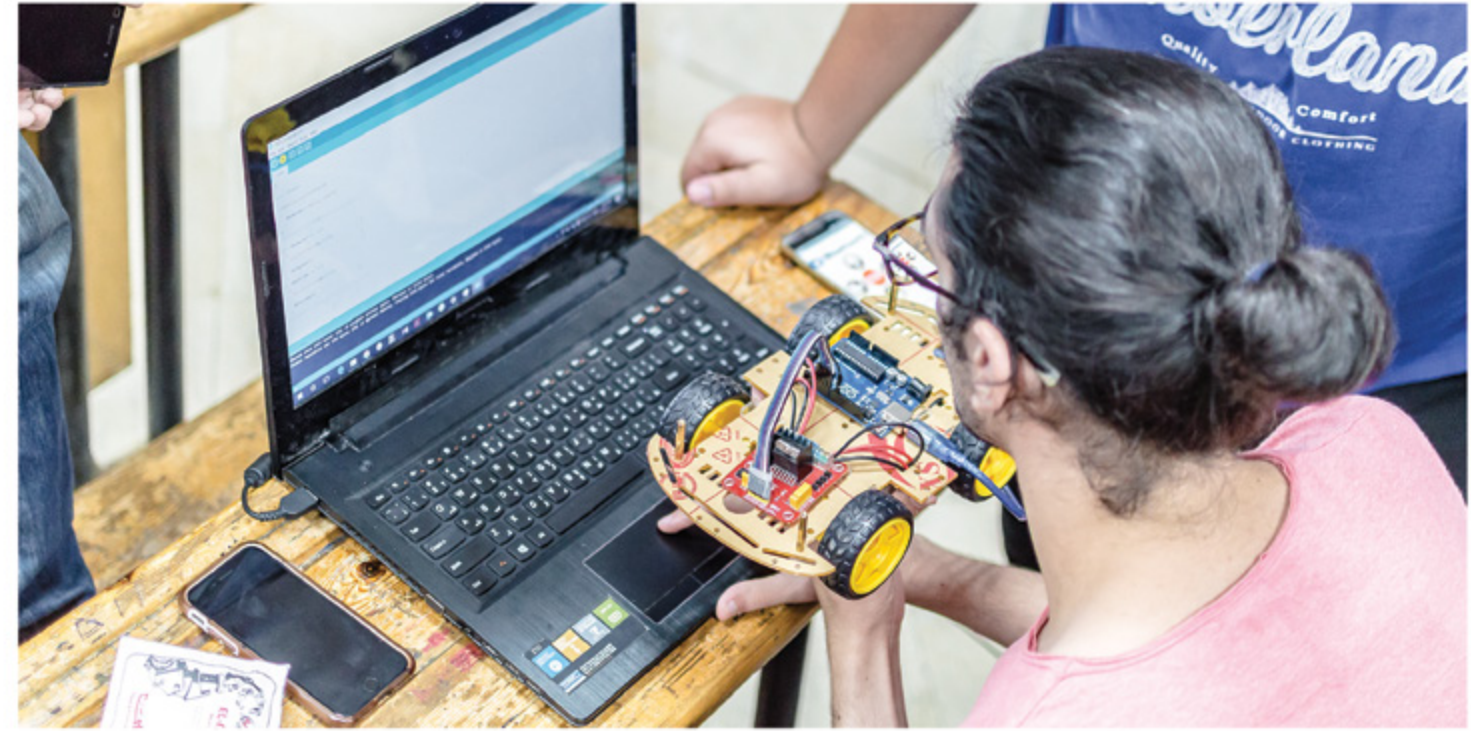
Heywood Broun



IHUB

Stimulating innovation and entrepreneurship in ASU

Providing support for students and graduates through helping them to think and innovate to grow their skills at any stage of development to cover a wide range of disciplines





Postgraduate

Graduation is never the end of the path, since ASU FE vision is to graduate a well-educated and innovative graduate that is capable to influence his community through his study.

Consistent with the faculty mission, several steps are taken to support graduates until they reach their goals and the career they've sought after.

Post graduates programs and events take place yearly for faculty graduates to develop their skills and help them catch their dream job.

the future is here

ECDC

The ASU ECDCs were inaugurated in January 2015 as a result of an agreement between Ain Shams University and the American University in Cairo (AUC), with funding from the United States Agency for International Development only to be fully absorbed by Ain Shams University starting July 2017.

AUC's Career Center provided its technical expertise and trained the ECDC staff to become certified career development facilitators. To date, the ECDC has served more than 18,000 ASU students, providing them with career guidance services throughout their career planning process.

The services include career development workshops, resume writing assistance, interviewing skills practice and job search preparation. ECDC also organizes an annual employment fair to help students/graduates with their job search process.

Employment fair



Research



Electrical Engineering

Electrical power and machines
Electronics and Communications Engineering
Computer and systems engineering



Architectural Engineering

Architecture Engineering
Urban Planning



Civil Engineering

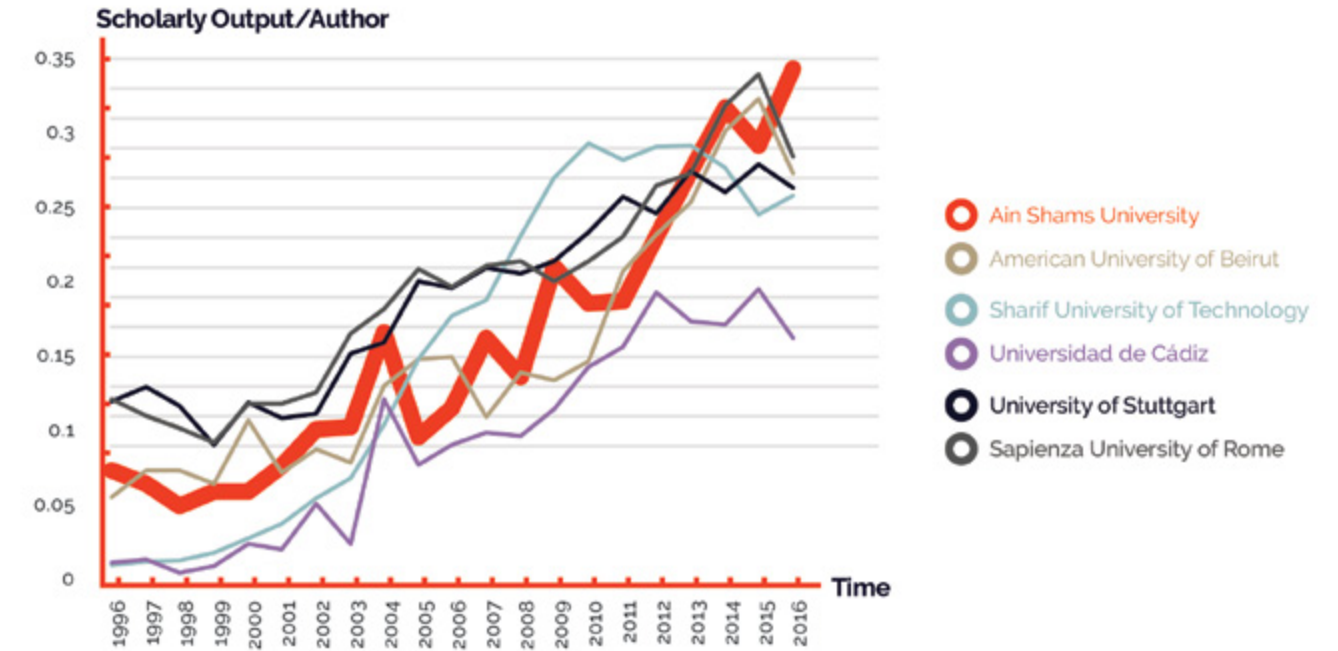
Construction engineering
Public works
Irrigation and Hydraulics



Mechanical Engineering

Design and production engineering
Automotive Engineering
Mechanical Power Engineering
Mechatronics Engineering

Research map



Path of interstitial studies

Program of Cities with equivalent resources (IMaREC):

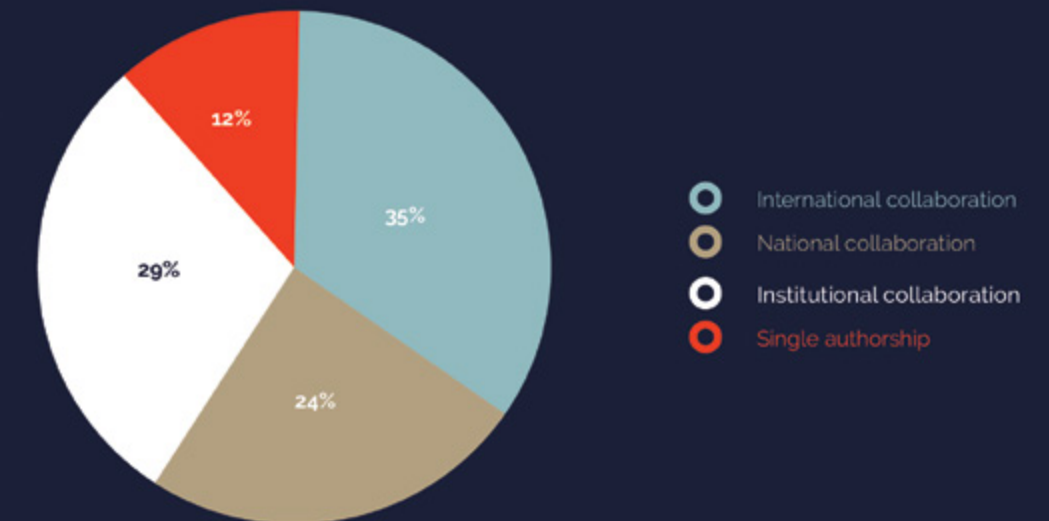
This program has been designed with the participation of Ain Shams university and 4 foreign universities from Germany, Mexico, Indonesia and Kenya. Through the partnership and the cooperation in the project CNRD (distinction center of natural resources and development) of the program EXCEED,

New and renewable energy program JAMILA:

The program is a product of joint research project financed by the European Union with the participation of Egyptian universities including Ain Shams university, and with the participation of Sapienza university in Italy, Kades in Spain, northumbria in UK and two universities in Palestine.



Collabo-ration



Achievements



king ramses II statue relocation

Relocating one of the most important statue that weigh 83 tons and its height about 11.36 meters was an incredibly tough job. But what is most tough was doing the job with a zero risk system through studying all the possibilities, testing all the statue parts and designing the carriage.

Consultancy Team:

Dr. Ahmed Hussein (system design and transport activity)

Dr. Mostafa Rostom (supervision of manufacturing and implementation)

Dr. Tamer El-Nady (Vibration Monitoring)

The task has been successfully done witnessing its accuracy and uniqueness.



A new record for our faculty in the latest release for Shanghai ranking which is considered the most important over the world. The faculty departments come within the best 300 departments across the world. This ranking is among more than 20,000 universities around the world. In QS and timz ranking, our departments picked a rank amongst the first 500 across the world.



Faculty of engineering ASU, accredit from MAGAAEC natural authority for quality assurance and accreditation

In the field of scientific research dissemination, our faculty's scientific magazine keeps picking its outstanding position in the international scientific publishing

Scopus scientific database, Ain Shams ranked 203 over the world.

Quarter: Q2016) 1) from Q2015) 2) ranked 60 in engineering journals.

CiteScore: 2016) 2.55) from 1.51 2015)) ranked 256/21 in engineering.

SNIP: 2016) 1.685) from 2015) 1.198)

SJR: 2016) 0.632) from 2015) 0.426)

The magazine keeps picking its rankings amongst the world through Tomson Roiters database, reaching to 1.45 rate.



Something for you! students opinion.

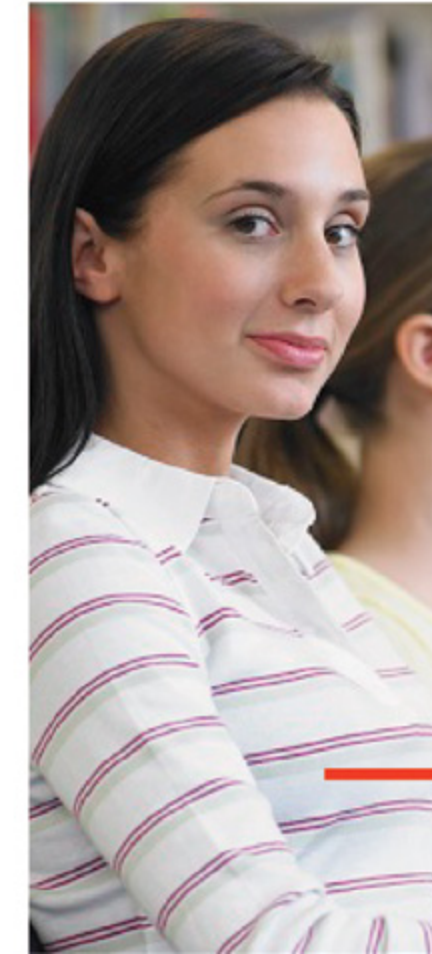


"Engineering and science are incredibly flexible degrees. They teach you how to think critically and solve problems –skills that can be applied across a variety of disciplines to create solutions to the challenges the world faces today, and to help shape the world of tomorrow. I think they are an excellent foundation for a diverse range of pursuits."

Mohamed Kamal
Bachelor of Engineering

"Combined with my engineering degree, my project management studies will open more doors, fast-tracking my career and the projects I can work on. This degree will create so many more career opportunities, more variety and a better understanding of the industry."

Passant Adel
Bachelor of Engineering

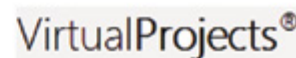


"Studying science is an incredible experience and I constantly find myself amazed at what we are taught. When I began studying at university, I hadn't imagined that I would continue to a PhD, but now I can't imagine doing anything other than more science."

Karim Mostafa
Bachelor of Engineering



Partners



Partners

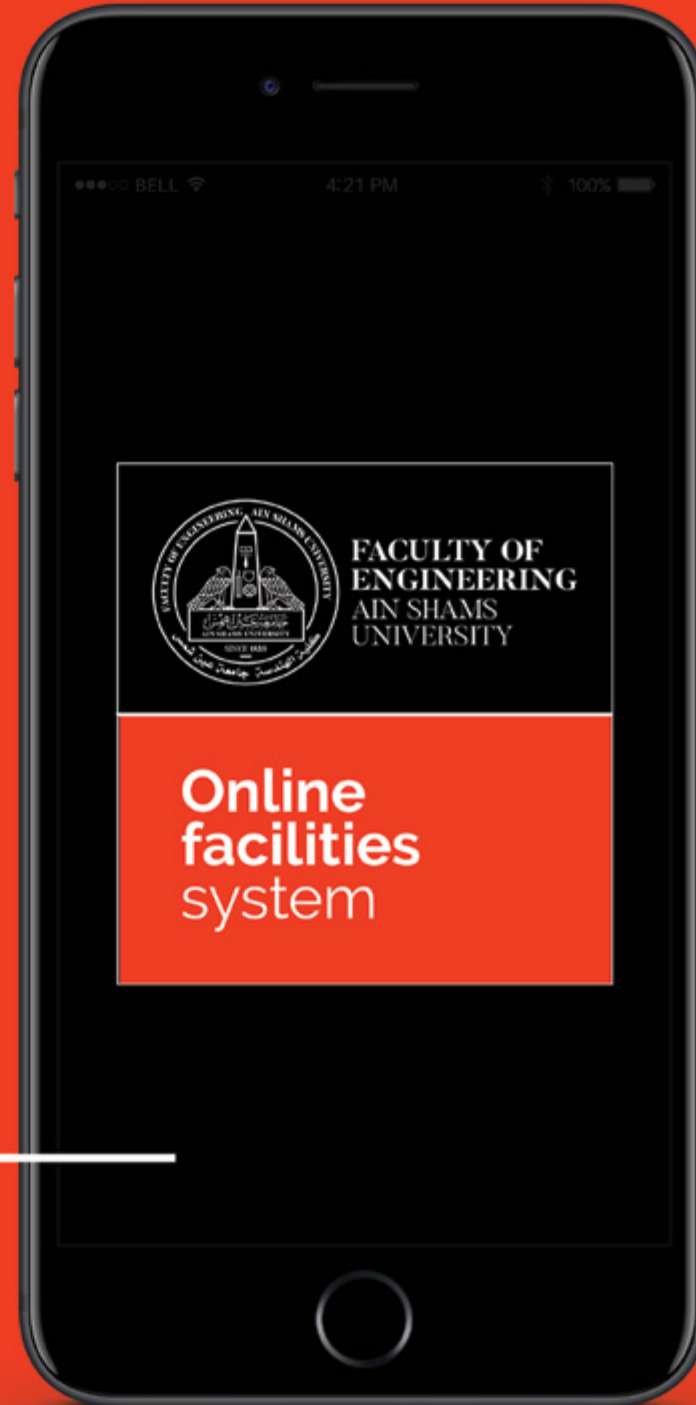


study abroad



Online facilities

Since engineering is a lifetime process, the faculty is concerned with both time management and time investment. Hence, it offers a wide range of online services encompassing submission, paying fees, as well as E-learning. Engineering has never been easy and each second in the student's life counts. So it was necessary to save their time through offering a smart online services to make it way easier for them to reach all needed data about the faculty and its departments, and also to facilitate routine tasks that have been a waste of time through years such as paying fees.



**FACULTY OF
ENGINEERING**
AIN SHAMS
UNIVERSITY

There is nothing I believe in more strongly than getting young people interested in science and engineering. For a better tomorrow, for all humankind.

Bill Nye.



www.eng.asu.edu.eg



**FACULTY OF
ENGINEERING**
AIN SHAMS
UNIVERSITY

Dean Office

1 El-Sarayat st, Abdo Pasha, Abbasia,
Cairo Arab Republic of Egypt

Tel: (+202) 26821800

Fax: (+202) 24672259

Postal Box No: 11517

Email: Dean@eng.asu.edu.eg

Website: Portal.eng.asu.edu.eg

Eng.asu.edu.eg