



for Sustainable Development



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A new concept of University

for the 21st Century

Universities of the 21st century require a fundamentally different approach to knowledge. The challenges of the future – such as climate change, resource scarcity, population growth, extreme poverty, food security – need innovative, problem-solving solutions. Heliopolis University is committed to face these challenges and has declared sustainable development to be its overall guiding principle.

Vision

Heliopolis University strives for Sustainable Development of individuals, communities and nature in Egypt and the world.



Heliopolis University graduates understand and act according to the fact that:

- 🌀 All our resources - water, energy, food - are limited and that the future needs sustainable thinkers and solidarity in thinking to safeguard resources for future generations.
- 🌀 It takes creative and innovative leaders with new ideas to tackle current and future challenges.
- 🌀 Team work and cooperation are the key factors for a sustainable future for all human beings.
- 🌀 Theoretical and practical work need to be combined in order to change the world.

“Sustainable development *is development that meets the needs of the present without comprising the ability of future generations to meet their own needs.”* (Brundtland Commission, 1987).

Our approach to sustainable development includes a holistic worldview – seeing the world as an integrated whole rather than a dissociated collection of parts. This means striving for a future where all human beings can unfold their potential, where humankind lives together in social forms reflecting human dignity, and where all economic activity is conducted in accordance with ecological and ethical principles.

Mission

At Heliopolis University, we empower our students to be champions of sustainable development in different spheres of life. We provide a place where new ideas meet fertile ground for further research and teaching. Our education combines teaching, research and practice with an unique humanistic core programme, developing curious and creative minds. This will prepare the leaders of tomorrow to competently act and reflect on the decision shaping the world.

Business and Economics

for Sustainable Development
at Heliopolis University

The Faculty of Business and Economics for Sustainable Development is at the forefront of innovative and alternative models applied in business and economics. We are committed to fostering a system that is simultaneously ethical, successful and competitive, and empower our graduates with a unique set of opportunities and skills to achieve this.

Departments

- Marketing
- Accounting
- Economics
- Finance
- Management

Degree

The faculty awards the **B.A. Business and Economics**, accredited by the Egyptian Ministry of Higher Education and based on the Credit Hour system, compatible with the European Credit Transfer System (ECTS).

Academic Programme

Four-year degree programme
Creative combination of courses from all five areas of study
Two internships
Group research-to-innovation project
Final bachelor thesis



Content

The **Core Programme** is an integral part of the studies (15%), containing courses in the laws of nature and community, the way of social behaviour and the ability to gain an ongoing learning of language and art.

Academic specialised faculty courses make up the majority (85%) of the course load and include courses on sustainable economy and enterprise, social economics, sustainable approaches to development, quantitative methods, human development, development beyond modernisation.

Finally, students take a significant number of courses in their chosen major and minor (marketing, accounting, economics, finance or management). These courses reach advanced levels as students proceed in their studies.

Why Study at Heliopolis University

Our students benefit from a unique sustainable and developmental approach to business and economics:

- **An advanced dynamic curriculum** that addresses all topics related to sustainable business and economics. Unlike traditional curricula, students follow a core programme that includes courses in nature and community, social sciences, the arts and languages. Additionally, the curriculum includes hands-on training, accredited internships, and a final thesis aiming at providing students with practical orientation and added value in the field.
- **Prominent faculty members from Egypt and abroad** who mentor our students to practice scientific research and to sharpen their strategic thinking abilities.
- **A selective student body**, favouring a positive learning environment and proper interaction between students and faculty members.
- **Modern teaching methods**, going beyond traditional teaching methods. Blending academic concepts with practical vivid experience is at the core of our method, enabling students to learn how to research, apply and interpret knowledge. Our faculty members discuss **industry case studies** with students and invite guest speakers to share their practical experiences in class.
- **The Network of Collaboration with International Universities**, through which we offer student and faculty **exchange programmes**, curriculum development, and university-industry partnerships. We permanently connect our students with their foreign counterparts to share knowledge and to enhance their learning experience in a multicultural background – a necessity in today's global labour markets.
- **Strategic alliances** with local industries and multinational corporations to provide our students with internships and real life work experiences.

Career Prospects

Our graduates are particularly prepared to pursue careers in the following areas:

Private sector: In companies across all industries as analysts, managers, CSR (Corporate Social Responsibility) specialists, economists, sales, marketing or administration representatives and many others.

Public sector: In national Ministries of Economy, Industry and the Environment, as well as in urban, rural and economic development.

Civil society: From local NGOs and charitable enterprises to multilateral agencies, such as the World Bank and the IMF, graduates are equipped to not only manage individual enterprises but also position these in a local and global, social and economic context.

Research: Postgraduate studies nationally or abroad.

Environmental sector: Graduates are specifically ready to deal with environmental issues in all sectors.



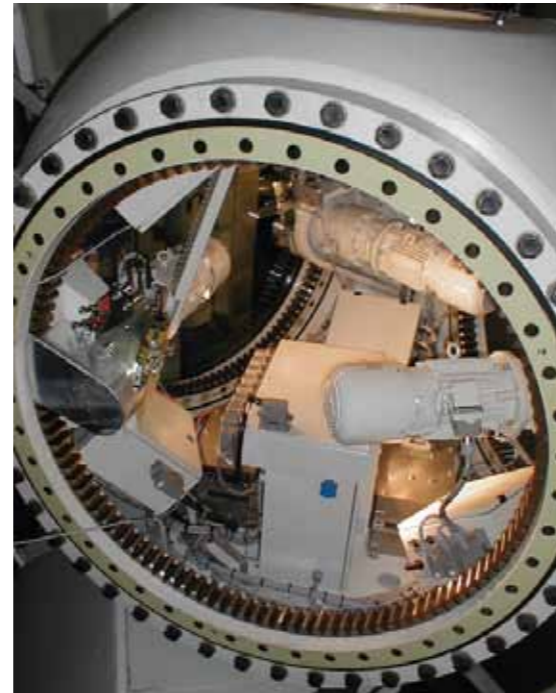
Engineering

for Sustainable Development
at Heliopolis University

At the Faculty of Engineering, we believe that engineers are not only responsible for technical implementation but that they also need to be knowledgeable about the environment, social and economic topics. We thus complement the specialised engineering curriculum with courses in the social sciences, humanities, the arts and languages. We apply directly the concept of sustainability in all our activities, through research, teaching and hands-on application.

Departments

- **Energy Engineering**
- **Water Engineering**
- **Mechatronics Engineering**



Degrees

Heliopolis University awards the **B.Sc. Energy Engineering**, **B.Sc. Water Engineering**, **B.Sc. Mechatronics Engineering**, accredited by the Egyptian Ministry of Higher Education and based on the Credit Hour system, compatible with the European Credit Transfer System (ECTS).

Academic Programme

- Five-year degree consisting of core programme studies and engineering studies
- Two practical trainings
- Final graduation project in the fifth year

Content

In each of the faculties, the students follow core and specialised courses throughout their studies.

The core courses are an integral part of the academic curriculum and are taken in the fields of nature and community, the arts, social science, and language.

In the specialised courses, students gradually approach more advanced levels where they can choose from an array of electives according to their interests. These courses cover the following topics related to sustainable engineering: sustainable development; solar energy systems; wind energy modelling and control; electrical energy; mechanical energy; mechatronics; water engineering; environmental engineering; engineering management.

Why Study at Heliopolis University

Our students are uniquely prepared to develop new sustainable engineering models in order to better serve the needs of the future. They benefit from:

- **An advanced dynamic curriculum** which combines required practical training, a final thesis in the last year and academic studies. These studies cover the topics of energy, water, mechatronics and environment. Our curriculum is the only one in Egypt that also provides engineering students with courses in nature and community, social sciences, the arts and languages.

- **Prominent faculty members** from universities in Egypt and abroad.

- **A small and selective student body**, favouring a positive learning environment and proper interaction between students and faculty members.

- **Modern teaching methods**, enabling students to learn how to research, create, interpret and apply knowledge, going far beyond traditional teaching methods and curricula.

- The **Network of Collaboration with International Universities**, through which our professors were trained and through which we continuously engage in curriculum development, university-industry partnerships, assessment of the needs of the engineering profession and supply of latest technology equipment.

- **Strategic alliances** with local industries and multinational corporations to provide our students with internships and real life work experiences.

- **Student exchange** through international cooperation with recognised universities worldwide.



Career Prospects

Our students have qualifications widely sought on the national and international labour markets. They are particularly prepared to work in the following fields:

Energy Engineers: Power station industries, production lines, process industry, wind farms, Photovoltaic industry, the utilities, general industries, and entrepreneurship.

Mechatronics Engineers: Automated manufacturing system industries, robotics, industrial control systems, automotive engineering and electric vehicles, pharmaceutical engineering, delicate production lines, and energy engineering technology.

Water Engineers: Irrigation system engineering, GIS (Geographic Information System) development, private sector industries for water treatment and water desalination, Ministry of Irrigation, and water utility authorities.

Research: Postgraduate studies locally or internationally in all fields.



Pharmacy

for Sustainable Development
at Heliopolis University

The Faculty of Pharmacy provides the pharmaceutical sector and society with capable and skilled graduates dedicated to the improvement of health services as well as the health of society in general. We believe in the importance of complementing specialised studies with natural sciences, social sciences, the arts and languages. This supports our comprehensive approach, paving the way for sustainable development.

Departments

- Pharmacognosy and Microbiology
- Pharmaceutical Chemistry
- Pharmacology and Biochemistry
- Pharmaceutics and Pharmaceutical Technology
- Pharmacy Practice



Degree

The faculty awards the **Bachelor Degree in Pharmacy**, accredited by the Egyptian Ministry of Higher Education and based on the Credit Hour system, compatible with the European Credit Transfer System (ECTS).

Academic Programme

A five-year degree programme
Four years of common curriculum with core courses and specialised courses
One year of courses in chosen emphasis
Bachelor Thesis

Content

Core courses are an integral part of the degree, taken in the fields of nature and community, social science, the arts, and language.

The specialised curriculum covers all modern pharmaceutical fields with more in-depth courses on pharmaceutical care, biotechnology, molecular biology, bioinformatics, environmental ethics, nutrition, pharmacy, economics and communication skills.

In their final year, students follow courses in their area of emphasis: Phytopharmacy, Biotechnology, Industrial Pharmacy and Drug Design or Pharmaceutical Care and Marketing.

Why Study at Heliopolis University

We promote excellence and leadership and offer to our students:

- An **advanced dynamic curriculum** which combines required practical training, a final thesis in the last year and academic studies. These studies cover pharmaceutical and medicinal courses as well as chemistry and non-natural science courses. Our curriculum is the only pharmaceutical curriculum so far in Egypt that provides students with courses in nature and community, social sciences, the arts and languages, in addition to their specialisation. and community, social sciences and art in addition to their specialization.

- **Prominent faculty members** from universities in Egypt and abroad.

- A **small and selective student body**, allowing for a favourable learning environment and interaction between students and faculty members.

- **Modern teaching methods**, enabling students to learn how to research, create, interpret and apply knowledge, going far beyond traditional teaching methods and curricula.

- **Network Collaboration with International Universities**, through which our professors were trained, and through which we engage in developing curricula, establishing university-industry partnerships as well as assessing the needs of the pharmacy profession.

- **Strategic alliances** with local industries and multinational corporations to provide our students with internships and real life work experiences.

- **Student exchange** through international cooperation with recognised universities worldwide.



Career Prospects

Our students acquire technical and pharmaceutical competencies that make them particularly fit to work in the following sectors:

Research: Postgraduate studies nationally or abroad, as researchers in national and international research institutes or university faculties.

Private Sector: In pharmacies, as clinical pharmacists in private hospitals, or in multinational pharmaceutical companies (production, quality control, research and development, medical representatives ...)

Public Sector: In national Ministries of Health, or in public hospitals and public pharmaceutical companies, promoting public health, developing and managing medication distribution and control systems.



Core Programme

Deepening Personal Development



The core programme is designed to awaken the students' individual creativity. The ability for teamwork and capacity for innovation develop a sense for social responsibility and a desire to serve in society. The core programme enables the student to transform old thought patterns into creative ways of action. This training engages the head, heart and the hands. Through self-reflection and self-expression, the student grows in confidence. Upon reaching the work place, the student is now equipped with the necessary skills needed for problem solving.

At Heliopolis University, each student engages in this unique core programme. An ability to perceive both one's self and the world with awakened awareness, develops a compassionate approach to the challenges encountered in professional life. This training motivates students in their pursuit of life-long learning.

The core programme includes four course streams:

Arts:

Deepening personal development through engaging in **Music, Acting and Speech, Eurythmy and Fine Arts.**

Social Sciences:

Widening knowledge through learning about **Politics, Human Rights and Social Research.**

Nature and Community:

Balancing inner and outer nature through discovering **Deep Ecology, Philosophy and Psychology.**

Languages:

Understanding cultures through studying **English, German and Arabic.**

Active Student Life

Students enjoy an active and eventful community life involving both students and faculty. Our exceptionally motivated and talented students benefit from our facilities in place, but also have room for own initiatives.

International student exchange

Facilities for artistic activities

Diverse sports activities

Cultural Centre

Social service and volunteering opportunities

Intensive summer courses

Career counselling services

Modern library system



Lively Community of mutual Learning

The **Social Innovation Centre** designs and navigates the key transfer processes within the university. The role of this centre is to enhance integration between the core programme and specialised sciences. It promotes curriculum design and ensures a faculty spirit of sustainable development and academic quality. Since research plays a crucial role in solving current challenges, Heliopolis University emphasises the importance of research in all of its faculties. While all faculties

conduct research in their respective fields of specialisation, the social innovation centre brings together and embeds these research projects into a humanistic context.

High professionalism through international partnerships

Heliopolis University has been working in research projects with high ranking international universities in the fields of renewable energy, water, mechatronics, biotechnology, pharmacy and medicine for several years through its research arm, the Heliopolis Academy. This allows for mobility of students and researchers.

Among others, we work with the following universities:

- Alanus University (Bonn, Germany) in the fields of Economics and Arts.
- Cairo University (Egypt).
- Bochum University, (Germany) in the field of Mechatronics.
- Marburg University (Germany) in the field of Phytopharmacy.
- RWTH Aachen (Germany).
- TU Delft (Netherlands) in the field of innovation.
- TU Graz (Austria) in the field of education for sustainable development.
- University of Hohenheim (Germany).
- University of Osnabrueck (Germany).

Heliopolis University is also a signatory of the Magna Charta Universitatum of Bologna (Italy) and partner of the Regional Centre of Expertise for Education on Sustainable Development in Cairo, acknowledged by the United Nations University in Tokyo.

Corporate Network

To integrate practical experiences into each student's university career, we have established a network of corporate partners working in the field of sustainable development.

Strategic alliances with industry partners for student internship programmes.

Member of the "University Chair on Innovation" network that links enterprises and universities to solve industrial problems through applied research.



Join Us

Are you searching for new job opportunities?

Do you want to understand and experience what sustainable development is?

Can you envision becoming a leader in sustainable development?

Have you ever thought about opening a sustainable business?

Do you have the desire to change society?

Do you have the passion to create a better future?

Do you want to actively take part in building a new Egypt?



Then
Heliopolis University
is your place

The Founder



The founder, Prof. Dr. Ibrahim Abouleish, received the Alternative Nobel Prize for creating SEKEM, "a business model for the 21st century in which commercial success is integrated with and promotes the social and cultural development of society".

The Schwab Foundation, a partner organisation of the World Economic Forum recognised him as "Outstanding Social Entrepreneur".

The Medical University and the Technical University in Graz (Austria) awarded him an honorary doctorate and he received various honours from several universities and syndicates in Egypt. He also received the First Order of Merit of the Federal Republic of Germany.

In 2012, he received the "Business for Peace Award" in Oslo, the highest distinction given to a businessperson for outstanding businessworthy accomplishments.

"We founded SEKEM in 1977 to be a model for the vision of sustainable development in all dimensions of life: economy, ecology, society and culture. Over time, SEKEM grew and received worldwide recognition as a pioneer for sustainable development. It is from this endeavour that the vision of Heliopolis University merged. Heliopolis University educates young people in the spirit of sustainable development in all four dimensions of life. It encourages them to become activists who change the world around them with a holistic view on life."

Dr. I. Abouleish



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