FUTURE UNIVERSITY IN EGYPT
جامعة المستقبل

Volume 2

FACULTY OF

ENGINEERING

& TECHNOLOGY

August 2026

Community Service & Environment Development Sector

INTERNATIONAL TRAINING PARTNERSHIPS AND COOPERATION PROTOCOLS

Mechatronics students completed advanced training at the University of Wolverhampton, UK, in Intelligent Systems and Cyber Security.

FIRST PRIZE AT UIA–UNESCO GOLDEN CUBES AWARDS

The First Prize at the UIA–UNESCO Golden Cubes Awards 2026 in Barcelona for the project “Play as an Urban Revealer: A Comparative Study of Two Cities”.

COMPLETION THE 2ND PHASE OF UIA–UNESCO VALIDATION

The Department of Architecture completed the second phase of accreditation, advancing to the final stage toward full international accreditation.

SHOWCASE INNOVATION AT FEE_EX2026

Presented “Autonomous Robot for Drug Delivery in Hospitals” at FEE_EX2026, showcasing advancements in smart healthcare.

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https://engineering.fue.edu.eg/article.aspx?aid=6679&wid=2

Academic Program Development and Enhancement

The College continued its commitment to academic excellence through the review and refinement of academic regulations and programs, ensuring alignment with modern educational standards and industry needs.

Excellence in Academic Scheduling

The College successfully developed and coordinated course schedules through a collaborative and data-driven process, maximizing resource utilization while accommodating student needs and academic requirements.

Effective Governance of Academic and Student Affairs

The Academic and Student Affairs Committee held regular meetings throughout the academic year, contributing to informed decision-making and the continuous improvement of academic and student services.

Commitment to Continuous Quality Improvement

Ongoing monitoring, assessment, and evaluation processes reinforced the College's dedication to quality assurance and the continuous enhancement of educational outcomes.

Building a Supportive Environment for Student Excellence

The College remained committed to providing integrated academic and student support services that empower students to achieve academic success, professional growth, and lifelong learning.

Promoting Innovation and Future Skills

Through targeted initiatives and student-focused activities, the College fostered a culture of innovation, creativity, and leadership, empowering students to excel in a rapidly evolving global workforce.

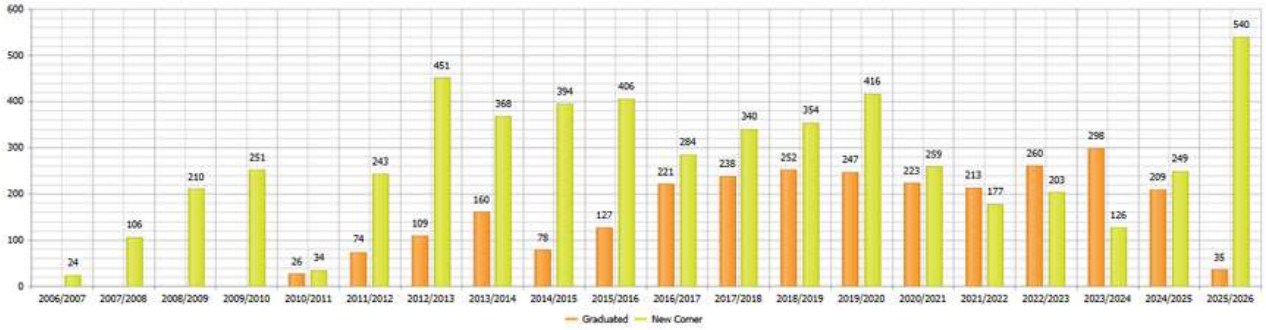
Data-Driven Academic Quality Enhancement

Comprehensive reports and performance analyses were produced each semester, providing valuable insights that support evidence-based decision-making and continuous academic improvement.

Expansion of Specialized Academic Programs

The College continued to broaden its educational offerings, reaching a total of 11 undergraduate programs that reflect emerging trends and evolving demands in engineering and technology fields.

Graduated and newcomers statistics



Expanding Practical Training Opportunities

More than 30 specialized external training partners, including companies, institutions, and training centers, were made available to students, providing valuable hands-on experience and stronger connections to professional practice.

Trainning statistics:

GEN 201 registered 168, finished 132

GEN 301 registered 145, finished 110

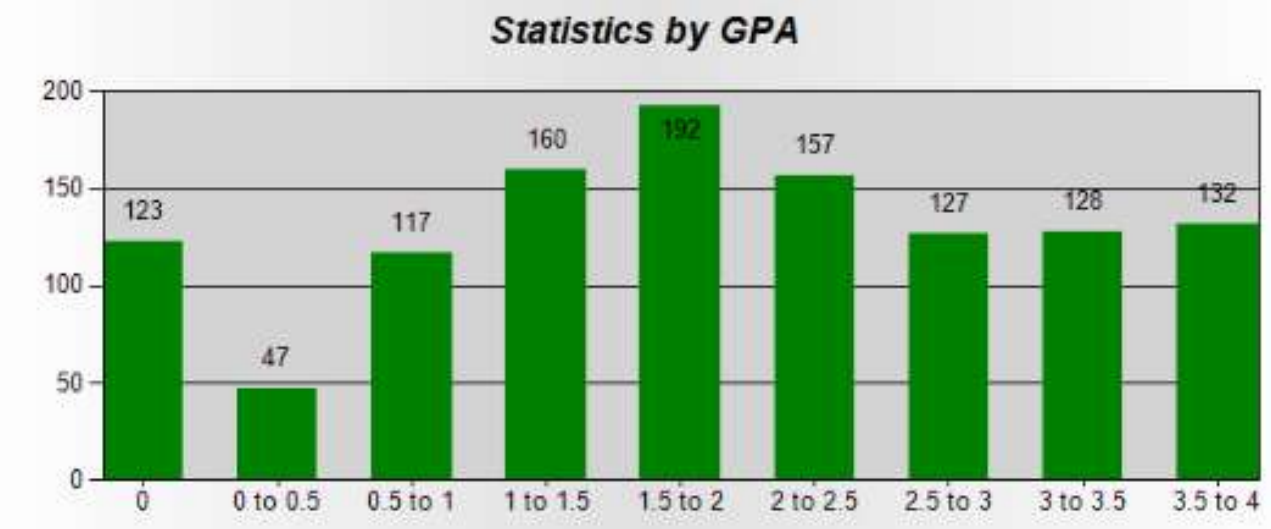
GEN 401 registered 138, finished 98

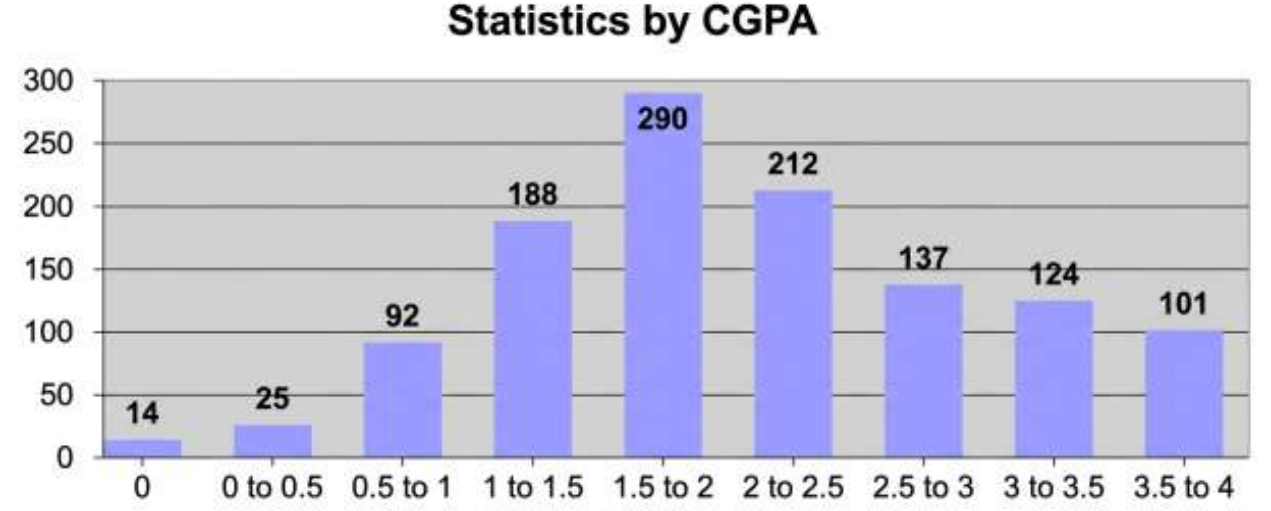
Efficient Management of Examination Processes

Final examination schedules were prepared and administered with high levels of organization, transparency, and fairness, ensuring a smooth and well-regulated examination environment.

Strengthening Academic Advising and Student Success

Comprehensive academic advising initiatives were implemented to support students, particularly those facing academic challenges, helping them progress efficiently toward graduation.





Judge of Innovative Engineering

Prof. Dr. Marwa Mostafa Youssef Ahmed, Vice Dean for Graduate Studies and Research, was honored for serving as a judge of innovative engineering projects from universities across Egypt at Capital University.



Transforming Postgraduate Education

The Faculty made significant strides in its postgraduate studies by implementing new governance mechanisms, updated regulations, and improved student support services. Key achievements included the launch of the first Postgraduate Student Handbook and a semi-annual progress monitoring system for research students, enhancing academic follow-up and learning outcomes.

Research Supporting Sustainable Development

A total of 97 scientific publications were produced in alignment with the United Nations Sustainable Development Goals, contributing to four SDGs and demonstrating the Faculty's growing impact on addressing global and national challenges through research and innovation.

Advancing Research Excellence

The Faculty continued to reinforce its commitment to research excellence by developing a comprehensive mechanism for monitoring research plans across all academic departments. Research coordinators were appointed to track progress, align projects with institutional priorities, and ensure that research activities contribute effectively to national development goals and scientific advancement.

Strengthening Support for Scientific Publishing

The Faculty allocated substantial resources to support international publication, conference participation, and research incentives. Approximately 22.5% of the research budget was dedicated to enhancing scientific output and increasing the international visibility of Faculty research.

Expanding Research Priorities and Impact

Research activities continued to flourish across five strategic research themes, including sustainable energy, water and environmental sustainability, environmental protection and advanced materials, national industry development, and information and communication technologies. These priorities ensure that research outcomes contribute directly to societal needs and Egypt's Vision 2030

Enhancing the Faculty Scientific Journal

A major milestone was achieved through the integration of the Faculty Journal into the Egyptian Knowledge Bank platform. The journal underwent significant modernization, including restructuring the editorial board and reviewer system, creating new opportunities to attract high-quality research and increase academic visibility.

Moving Toward International Accreditation

The Faculty initiated preparations for ABET accreditation of the Mechatronics Engineering postgraduate program. This strategic step reflects the Faculty's ongoing commitment to international quality standards and academic competitiveness.

Building Global Academic Partnerships

The Postgraduate and Research Sector strengthened international collaborations through engagement with academics from the University of Cincinnati and discussions on future joint postgraduate programs and research initiatives. These partnerships pave the way for increased international exposure and collaborative opportunities for students and faculty members.

Supporting International Research Cooperation

The Faculty actively participated in international research and mobility initiatives, including the European Union-funded Erasmus+ project "UPTAKERS," which focuses on upgrading academic skills and innovative capacities through inclusive and hybrid learning environments.

Promoting Research Integrity and Ethics

Significant efforts were made to strengthen research ethics and academic integrity. The Faculty updated its Research Ethics Charter for the first time since 2019 and maintained comprehensive plagiarism screening for newly registered theses, dissertations, and research proposals, ensuring compliance with the highest academic standards.

Digital Transformation of Postgraduate Services

The Postgraduate Affairs website and digital services were comprehensively updated to improve accessibility, transparency, and communication with students and researchers, supporting a more efficient academic environment.

A Vision for Continuous Improvement

The Faculty remains committed to continuous improvement through regular assessment of research performance, strategic planning, and evidence-based decision-making. Future initiatives will focus on increasing international publications, expanding research funding, strengthening global partnerships, and further enhancing postgraduate education and research excellence.

Sharing the Blessings of Ramadan: A Special Visit

Organizing a special visit to Awlady-Association orphanage in Maadi in the spirit of the holy month of Ramadan.



Feb 2026



Awards & Academic Recognition

Dr. Doaa Kamal was honored for winning the Excellence in Teaching Award for the academic year 2024-2025 during the activities of the Secondary Scientific Conference of the Faculty of Engineering at Ain Shams University.

Dr. Doaa Kamal joined the committee of examiners to evaluate a doctoral dissertation, titled "Dealing with community participation in restricted contexts: facilitation competencies in Egypt," in the Department of Architecture and Urban Planning at the University of Stuttgart.



Mar 2026

And being honored to be part of the team that secured 3rd Place in the Egypt Government Excellence Award (Institutional Excellence category - 4th Cycle) for the Faculty of Engineering, Ain Shams University.



Mar 2026

Graduation Projects Juror

Dr. Doaa Kamal was invited to the committee for evaluating and discussing graduation projects in the Architecture Department at Ain Shams Engineering 2026.


July 2026


May 2026

International training partnerships and cooperation protocols

Mechatronics students Mohamed Hamdy and Kirollos Robert successfully completed advanced training at the University of Wolverhampton, UK, through the Wolverhampton STEAM Academy Summer 2026 program. They were recognized by Prof. Dr. Ahmed Onsy and distinguished professors for their achievements in Intelligent Systems and Cyber Security.



July 2026

The Innovation behind the GEM: The Structural DNA

An event focusing on the engineering innovation behind the Grand Egyptian Museum. It hosted leading international firms and targeted students, faculty, teaching assistants, administrative staff, and alumni from Future University's Faculty of Engineering and other faculties.


May 2026

ELEVATE Continuing Education Hub

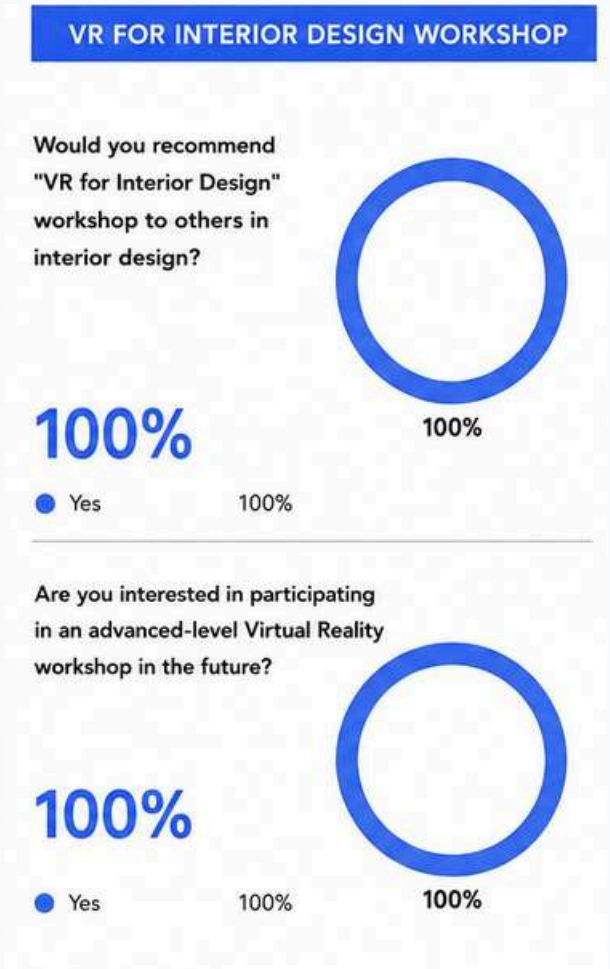
Offering three in-demand courses: VR Immersion for Interior Design, Interior Design for Beginners, and a Robotics Workshop. Ranging from 2 to 22 days, these programs provided participants with practical skills in emerging and highly sought-after fields.

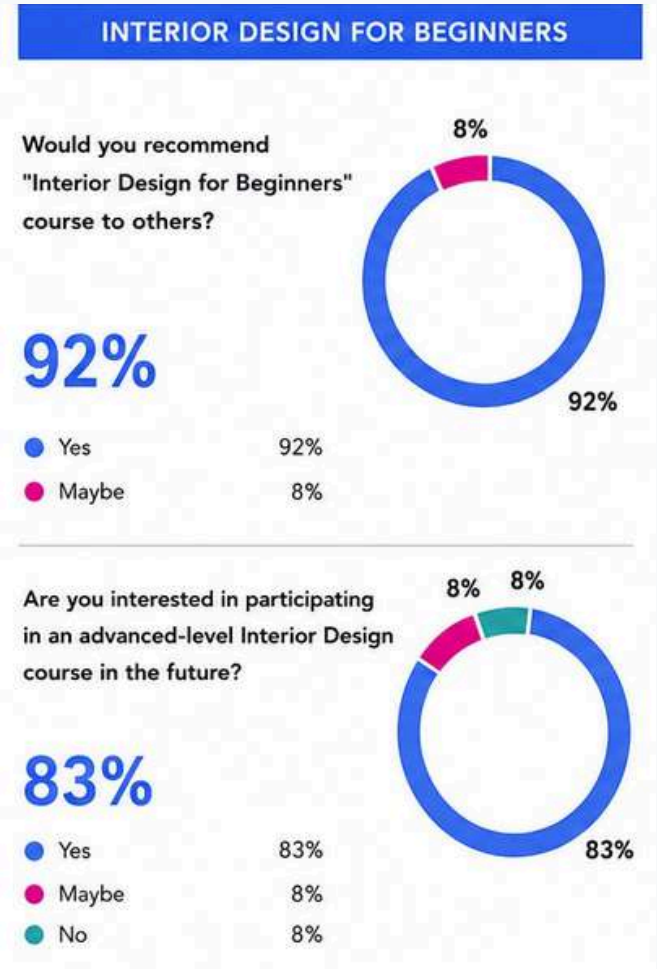


VR Immersion for Interior Design (April 22-23, 2026)-
Dr. Mohamed Mahmoud - Architectural Engineering department



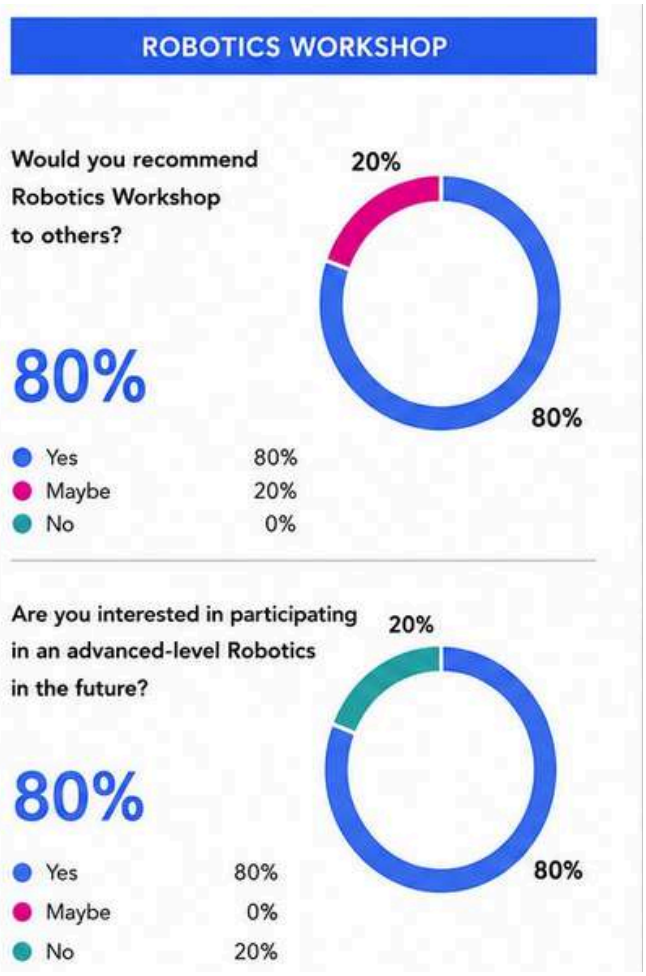
Interior Design for Beginners (June 20, 2026 – July 11, 2026) - Architectural Engineering department







Robotics Workshop (August 12-13, 2026)
Dr. Abd-Elbar - Mechanical Engineering Department



The implementation of workshops and courses serves to significantly enhance faculty responsibility in promoting lifelong learning and continuing education. By participating in these initiatives, faculty members not only advance their own professional development but also contribute positively to the community at large. This collaborative effort fosters an environment of growth and innovation, ultimately leading to a more educated and engaged society. Embracing such opportunities reflects a commitment to excellence and progress, ensuring that both educators and the community reap the benefits of continuous learning.

ConstraTech 2026 conference invitation

Dr. Doaa Kamal was invited to the ConstraTech 2026 conference, focusing on building strategic partnerships in the Middle East. Held at the Regional Center for Construction Innovation, Royal Maxim Palace Kempinski. Served as a key platform for innovative ideas and collaboration, facilitating expertise exchange.



Architectural Engineering Department

Meet The Experts to Create Exceptional Spaces

A day of learning that connected academic research with professional practice. Students gained insight into the future of the field, exploring cutting-edge digital tools and high-end project execution.

The event featured an information session on the UPTAKERS project, an ERASMUS+ initiative, introducing new courses in the “digital concentration” of the updated curriculum and showcasing the Extended Reality Laboratory.



April 2026

Educational Field Trip to GEM

Organized an academic field trip to the Grand Egyptian Museum (GEM) under the supervision of Dr. Mahmoud Elghawaby, over a hundred students and faculty members explored the museum’s architectural and cultural significance, reinforcing this year’s graduation project theme through firsthand engagement.


May 2026

First Prize at UIA–UNESCO Golden Cubes Awards



Representing Future University in Egypt, Associate Professor Mahmoud Elghawaby and Professor Noha Gamal received the First Prize for Written Media at the UIA–UNESCO Golden Cubes Awards 2026 in Barcelona for their collaborative project “Play as an Urban Revealer: A Comparative Study of Two Cities,” which emerged from an international workshop uniting students and faculty from five countries to creatively address urban challenges affecting children.



Architectural Engineering Department

Workshop by Saveto Egypt

The Architectural Engineering Department partnered with Saveto Egypt to deliver a lecture and workshop on contemporary building materials and finishing technologies. Students explored innovative cement-based finishing systems through live demonstrations highlighting their durability, performance, and efficiency.



A field visit to Bayt Zainab Khatun

Students of the Interior Design Styles & Trends I course visited the historic Bayt Zainab Khatun in Downtown Cairo to explore Islamic architectural heritage firsthand, documenting spatial details and proposing adaptive reuse concepts that merge preservation with creative design—deepening their understanding of Egypt's rich Mamluk and Ottoman interior architecture.



Completion the 2nd Phase of UIA–UNESCO Validation

The Department successfully completed the second phase of its international accreditation process by the UIA–UNESCO, following a comprehensive two-day evaluation by an international committee advancing the department to the final stage toward full international accreditation.



FUE Students Earn International Recognition

Students Mohamed Ahmed Abdullah, Karim Mohamed, and Jana Tamer received an Honorable Mention in the global "Tiny House" competition for their innovative sustainable design—selected from over 100 submissions across 46 countries.



Architectural Engineering Department

Master's Thesis Defense Recognition

Department of Architectural Engineering celebrated the successful defense of Eng. Salma Mohamed El-Tohamy Elgendy's master's thesis, "Environmental Elements Affecting Human Behavior Inside Office Spaces," at Al-Azhar University—an insightful study on how interior architecture shapes comfort and productivity—attended by distinguished faculty.



The department also extends its congratulations to Eng. Omar Magdy Ahmed El-Bahrawy's master's thesis, "Optical Illusion in Interior Architectural Spaces: Economical Housing," at Al-Azhar University, an innovative study on enhancing spatial perception in affordable housing through design illusion techniques.



Biomedical Engineering Department

Field Visit to Imed Academy

Organized a field visit for Biomedical Engineering students to Imed Academy, offering hands-on exposure to advanced biomedical practices and emerging healthcare technologies that enriched their technical knowledge and professional development.



AI Trends in Engineering Workshop

Hosted the workshop “Artificial Trends in Engineering: Perspectives and Applications” with Dr. Neven Saleh, Dr. Yasser Ismail, and Dr. Ahmed Abdel Gawad. The event provided insights into emerging AI applications in engineering and facilitated knowledge exchange among faculty, teaching assistants, and students.

Showcase Innovation at FEE_EX2026

Participated in FEE_EX2026 at Menoufia University, presenting a prototype project titled “Autonomous Robot for Drug Delivery in Hospitals.” Supervised by Dr. Neven Saleh, the project highlights the department’s dedication to advancing smart healthcare through robotics and automation that improve efficiency, accuracy, and safety in hospital medication delivery.





Electrical Engineering Department

Editor’s Choice Recognition

An article titled “Exploring the Optoelectronic Properties and Solar Cell Performance of $Cs_2SnI_{6-x}Br_x$ Lead-Free Double Perovskites: Combined DFT and SCAPS Simulation” (Manuscript ID: physics-3282117) has been selected as an Editor’s Choice by the MDPI Physics journal, highlighting its outstanding contribution to the field of optoelectronic materials and sustainable solar cell research.



Mechanical Engineering Department

Fluid Mechanics Projects

Second-level students presented a series of scientific seminars as part of their Fluid Mechanics course projects, exploring applications in energy systems, fluid flow, aerodynamics, hydraulic systems, and flow measurement. The projects demonstrated students' analytical thinking, research abilities, presentation skills, and ability to connect theory with practical engineering applications.

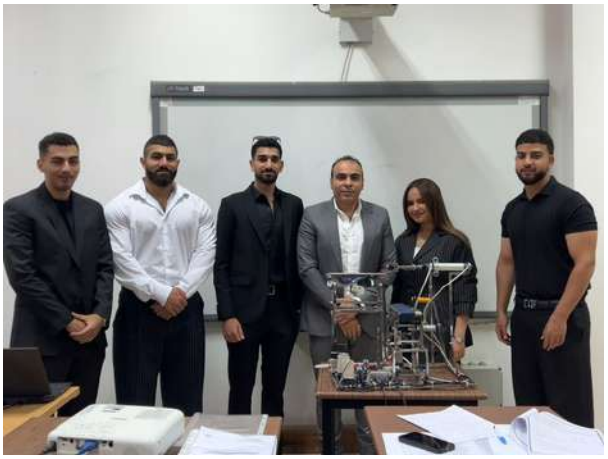






Fluid System Control Projects

Fourth-year students presented innovative projects combining mechanical design, control systems, and practical implementation to simulate modern industrial applications. The projects included a pneumatic robot arm, industrial sorting machine, automated production line, can crusher, stamping machine, and automated paper-cutting machine, showcasing practical engineering and automation skills.







Mechanical Engineering Department

Student Projects in Embedded Systems

Students presented innovative projects for the Real-Time Embedded Systems and Microprocessors course, applying microcontroller programming, PCB design, simulation, sensors, LCD displays, keypads, and motors. Projects included an Automatic Filling Machine, Smart Locker, Smart Home, Two-Way Traffic Lights, and Simple Calculator, demonstrating practical embedded-systems applications.







Petroleum Engineering Department

Bakr Field, Gulf of Suez, Egypt: An Integrated Petroleum Engineering Graduation Project

The Bakr Field project integrated petroleum engineering disciplines, combining technical analysis, teamwork, and data-driven decision-making to develop practical field-development strategies for real-world challenges.



Brain++ IV: Developing Future Leaders Through Soft Skills

Brain++ IV brought together around 120 participants for interactive workshops on communication, teamwork, leadership, problem-solving, and self-development, helping students build confidence and practical soft skills for their future careers.



Career Camp 2025: Preparing Students for Professional Success



Career Camp 2025 brought together around 100 participants for sessions and workshops on employability, career planning, communication, and professional skills, helping students strengthen their career readiness, build confidence, and connect with industry professionals.

Drilling Fluids Workshop: Exploring the Fundamentals of Drilling Engineering

The Drilling Fluids Workshop introduced students to the fundamentals of drilling fluids, covering their properties, functions, wellbore stability, pressure control, and rheology while connecting academic knowledge with practical drilling applications and industry practices

IAOSH – UK: Promoting Health, Safety, and Environmental Awareness

IAOSH–UK provided around 100 participants with specialized HSE training covering workplace safety, hazard identification, risk assessment, emergency response, and accident prevention, while promoting professional responsibility, practical awareness, and internationally recognized certification.



Industrial Visit to Alam Alsahara

The industrial visit to Alam Alsahara connected students with real-world petroleum engineering practices through technical presentations, industry discussions, and career guidance, helping them apply academic knowledge, understand current industry trends, and strengthen their technical and professional skills.



OMEC 2025: Advancing Knowledge in Corrosion Engineering

OMEC 2025 brought together around 150 participants to explore corrosion mechanisms, inspection methods, and modern prevention techniques, while connecting students with industry experts and highlighting corrosion management's role in safe and efficient petroleum operations.



PACE 26: Inspiring the Next Generation of Petroleum Engineers

PACE 26 brought together approximately 250 students, industry professionals, and academics for technical sessions, workshops, and networking opportunities, connecting petroleum engineering education with real-world applications while providing insights into industry trends, career paths, and professional development.



SLB Industrial Visit: Exploring Real-World Petroleum Operations

The SLB Industrial Visit provided students with firsthand exposure to advanced petroleum technologies and real-world operations, covering drilling, production, reservoir management, and digital solutions while offering valuable insights into industry practices, career opportunities, and professional skills.



Tam Oil Industrial Visit: Connecting Classroom Learning with Field Experience

The Tam Oil Industrial Visit gave students practical insight into petroleum operations, safety procedures, production, storage, and transportation, while connecting classroom knowledge with real-world applications and providing valuable guidance on career development and industry expectations.



TechLog Workshop: Developing Practical Skills in Petroleum Engineering Software

The TechLog Workshop introduced students to practical applications of TechLog in well log interpretation and reservoir evaluation, combining theoretical learning with hands-on training to strengthen software skills and support more informed petroleum engineering decisions.



SPE Appreciation



Society of Petroleum Engineers
Calgary • Dallas • Dubai • Houston • Kuala Lumpur • London
www.spe.org

Marco Hanna
90th St Fifth Settlement
New Cairo
Cairo 11511
Egypt

Dear Marco Hanna:

On behalf of the SPE Board of Directors, I would like to express our sincere appreciation for your service and contribution to SPE with the Future University in Egypt Chapter (2023-2024).

SPE belongs to its members; we are all the owners of this Society. Therefore, we all have a responsibility to ensure its success. Volunteering is the means by which we accomplish this.

I know you have already committed significant time to SPE. I hope you have found this experience as rewarding as I do, and that you choose to continue volunteering for other SPE activities.

You are helping to ensure that SPE will continue its vital role in helping industry professionals meet the changing and diverse challenges of the future.

Sincerely,

Terry Palisch

Terry T Palisch
2024 President

Americas Office
222 Palisades Creek Drive • Richardson, Texas 75080-2049 USA • Tel: +1.972.952.9393 • Fax: +1.972.952.9435 • Email: spedal@spe.org

Volunteer Appreciation



CERTIFICATE OF RECOGNITION

This is to acknowledge that

Dr. Mohamed Ghareeb Moustafa Ahmed

served as Member

2024 - 2027

Production & Operations Award Committee

Jennifer Lynne Miskimins
2024 President

Society of Petroleum Engineers

Simon Seaton
CEO and Executive VP

SPE President Certificate



CERTIFICATE OF RECOGNITION

This is to acknowledge that

Marco Hanna

served as President

2023 - 2024

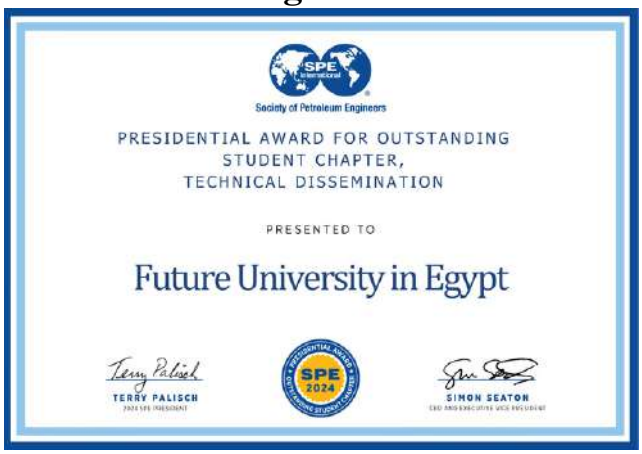
Future University in Egypt Chapter

Terry T Palisch
2024 President

Society of Petroleum Engineers

Simon Seaton
CEO and Executive VP

SPE Outstanding Award



Society of Petroleum Engineers

PRESIDENTIAL AWARD FOR OUTSTANDING STUDENT CHAPTER, TECHNICAL DISSEMINATION

PRESENTED TO

Future University in Egypt

TERRY PALISCH

SPE 2024

SIMON SEATON

Structural Engineering & Construction Management

Repair Project

The Rehabilitation and Strengthening of Structures project explored strengthening methods using steel plates, concrete jackets, fiberglass, and carbon fiber composites, following Egyptian and American codes to address structural rehabilitation and strengthening requirements.

STR Design Project

The Structural Design graduation project covered shoring, dewatering, retaining walls, foundations, and structural elements designed to resist vertical, wind, and earthquake loads in accordance with the Egyptian Code.





Construction Management Project

The Construction Project Management graduation project covered feasibility studies, planning, scheduling, cash flow analysis, resource management, quantity surveying, safety and risk management, project monitoring, and periodic reporting.



QUALITY ASSURANCE

We are proud to announce an important achievement for the Faculty of Engineering and Technology at Future University: the successful renewal of our institutional accreditation, reaffirming our ongoing commitment to academic excellence, quality assurance, and continuous improvement.

In addition, the Mechatronics Engineering program has officially received program accreditation from the National Authority for Quality Assurance and Accreditation of Education (NAQAAE). This achievement reflects the Faculty's continued efforts to maintain high standards across its educational programs, faculty expertise, laboratory facilities, learning resources, and student support services.

These accreditations represent an important recognition of the Faculty's commitment to providing high-quality engineering education and preparing graduates with the interdisciplinary knowledge and professional competencies needed to respond to the evolving demands of the engineering profession.

This achievement is the result of the collective efforts of our faculty members, academic and administrative teams, and students. We extend our sincere appreciation to everyone who contributed to this important milestone.

As we celebrate this achievement, we look forward to building on this success through continued innovation, quality improvement, and the development of a transformative educational experience for the engineers of tomorrow.



STARS OF THE ISSUE



DR. MOHAMED GHAREEB

GLOBAL PETROLEUM LEADERSHIP

Recognized internationally for his leadership and active contributions to the global petroleum engineering community.



DR. NEVEN SALEH

EDUCATION, RESEARCH, & HEALTHCARE INNOVATION

Leadership in education, research, and international collaboration, as well as her dedication to advancing healthcare innovation and student development.



DR. MOHAMED MOUSA

RESEARCH EXELLENCE IN SOLAR ENERGY

Recognized for outstanding research excellence in the Electrical Engineering Department, including an MDPI Physics Editor's Choice article on lead-free perovskite solar cell technologies.



ARCH. MARIAM MAGED

PROFESSIONALISM, ETHICS, & TEACHING EXCELLENCE

Recognized for her professionalism, strong ethical values, and dedication to teaching, she is a valued faculty member and an inspiring role model.



ENG. AHMED RAMI

STUDENT LEADERSHIP & INDUSTRY REPRESENTATION

President of the FUE SPE Student Chapter and representative at the PACE Conference, a leading petroleum industry event attended by senior government officials and industry leaders.



DR. DINA NOSEIR

RESEARCH, TEACHING, & STUDENT DEVELOPMENT

Outstanding dedication to research, teaching, and student development in the Architectural Engineering Department.



DR. MOSTAFA SALAH

RESEARCH EXELLENCE IN SOLAR ENERGY

Recognized for outstanding research excellence in the Electrical Engineering Department, including an MDPI Physics Editor's Choice article on lead-free perovskite solar cell technologies.



AL. DONIA WAHID

ACADEMIC PROGRESSION & MECHATRONICS ACHIEVEMENT

Recognized for her dedication and achievements in the Department of Mechatronics since 2018, she is the department's first MSc graduate and now is an Assistant Lecturer.



ENG. MARCO HANNA

INTERNATIONAL STUDENT-CHAPTER LEADERSHIP

Recognized internationally by the Society of Petroleum Engineers (SPE) for his outstanding leadership and contributions to the FUE SPE Student Chapter.



One man's 'magic' is another man's Engineering. 'Supernatural' is a null word.

Robert A. Heinlein