

August Newsletter

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“The only limit to our realization of tomorrow will be
our doubts of today.”

— Franklin D. Roosevelt

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News

Empowering Innovation:

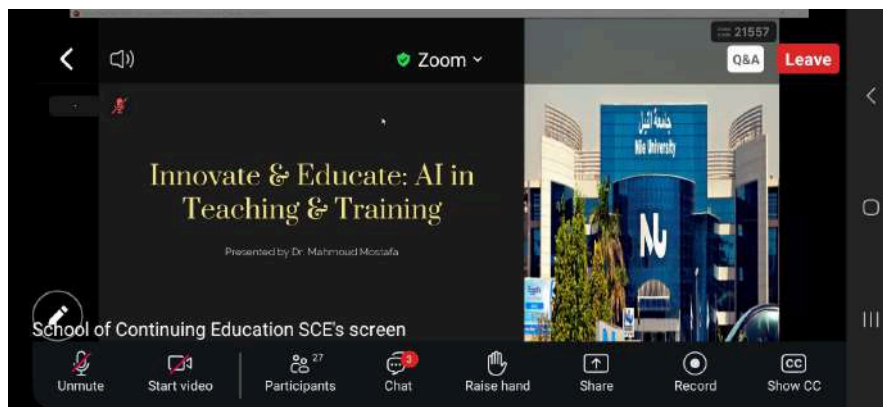
Prof. Ahmed Madian joined the opening of Made in Egypt 2025

Prof. Ahmed Madian, Full Professor and Electronics and Computer Engineering (ECE) Program Director at Nile University, proudly represented the IEEE Egypt Section at the opening of the Made in Egypt (MIE 2025) Final Competition.

The event kicked off with inspiring talks from industry leaders and innovation pioneers, setting the stage for a dynamic showcase of creativity, engineering talent, and entrepreneurial spirit among young innovators.



Launching Our NUSCE Course: AI in Teaching & Training (Batch 11)



We are excited to announce the launch of our AI in Teaching & Training course, designed for teachers, trainers, and university professors at the School of Continuing Education, Nile University.

Course Highlights:

- Duration: 24 hours
- Method: Online

This specialized training program focuses on educational technology and the integration of artificial intelligence in teaching and training.

In this program, you will:

- Learn to use various AI applications.
- Develop skills for implementing AI tools in classrooms and training environments.
- Explore effective AI applications for diverse learning contexts.
- Utilize AI for designing exams and evaluating students.
- Generate creative ideas for incorporating the latest AI technologies with students.

Don't miss this opportunity to enhance your teaching skills with cutting-edge technology!

News

Toward a Climate-Resilient Future: Nile University Partners with Ontario Tech University

Nile University's Smart Engineering Systems Research Center hosted partners from the Brilliant Energy Institute at Ontario Tech University, Canada, marking the beginning of a promising collaboration between two institutions committed to advancing sustainable energy and innovation.

The visit began with a warm reception and a guided tour of NU's campus, where our guests explored cutting-edge research labs, technology hubs, and collaborative learning spaces. This sets the stage for in-depth discussions on joint efforts to accelerate the transition to clean energy, promote climate resilience, and bridge the gap between education, research, and entrepreneurship.

The highlight of the collaboration was the workshop and panel discussion, "Toward a Climate Resilient Future: From Education to Entrepreneurship". The event brought together leading experts in sustainable energy, technology, and entrepreneurship from both NU and Ontario Tech University.



Through expert talks and engaging panel discussions, participants explored the transformative role of digital technologies, artificial intelligence, and integrated energy systems in accelerating climate action. The sessions also highlighted the importance of empowering clean tech startups and fostering entrepreneurial growth to deliver real-world solutions.

Dr. Lobna A. Said Participates in Fulbright-Egypt Annual Research Centers Meeting

The Binational Fulbright Commission in Egypt (BFCE) hosted its Annual Research Centers Meeting, bringing together directors of leading research centers and alumni of the Fulbright Egyptian Scholar Program.

Dr. Lobna A. Said, Associate Professor of Engineering and Microelectronics Systems Design (MSD) Program Director at Nile University, participated in the event as a discussant. She contributed to the keynote session led by Fulbright U.S. Scholar Dr. Lamar Yang from the University of Nebraska–Lincoln, who delivered an inspiring talk on "Reconfigurable Intelligent Surfaces-Based (RIS) Wireless Communications and Networks."



Her participation highlights Nile University's strong presence in national and international research networks and its commitment to advancing impactful collaborations.

News

NU Summer School Training: Air Quality Prediction Using Quantum Computing and Satellite Data Competition



Nile University proudly organised and hosted the pioneering Egyptian Air Quality Prediction Quantum Competition. From August 3 to 13, 2025, the program began with a Hybrid Quantum Summer School, which offered lectures and hands-on lab sessions in Qiskit, PennyLane, Photonic, and Superconducting Quantum Computing.

The Summer School was followed by the National Competition, where participants applied their skills to address the Egyptian Air Quality Prediction Challenge using advanced quantum machine learning models.

Key Contributors

- Prof. Ahmed El Mahdy – Wave Equation; Quantum Systems Composition; QML Challenges
- Dr. Salem Hegazy – Photonic Quantum Computing
- Prof. Tamer Abouelfadl – Superconducting Quantum Computing
- Dr. Ghada Khoriba – Supervised Machine Learning
- Dr. Noha Gamal – Unsupervised Machine Learning
- As: Ahmed Gamal, RA: Mohamed Hosam – Photonics & Superconducting Labs, PennyLane Lab

During the first week, participants focused on quantum mechanics fundamentals, engaged in hands-on labs with Qiskit and PennyLane, and explored cutting-edge Photonic and Superconducting quantum computers. In the second week, they bridged the quantum and classical domains with masterclasses in Machine Learning and Quantum Machine Learning, culminating in a project to estimate PM2.5 pollution using satellite imaging.

A massive thank you went to our instructors and participants, their curiosity, dedication, and energy were what truly made this initiative a success.

News

The 10th International Fatwa Conference



The 10th International Fatwa Conference, organised by Egypt's Dar al-Ifta, featured a workshop titled "Using Digital Research Tools and Artificial Intelligence in Preparing Fatwas – with Guidelines and Regulations"

Dar al-Ifta is working on a technological project to confront falsified fatwas in cooperation with the Academy of Scientific Research and Nile University, where several faculty members contributed significant insights.

Dr. Insaf Hussein Mohamed cautioned that AI lacks human understanding and warned that overreliance on it could erode public trust in fatwa sources. She suggested constructive uses such as smart search, research summarization, source verification, language improvement, speech-to-text for fatwas, and digitization of archives.

Dr. Walaa Medhat noted that AI can speed up the fatwa process by searching vast sources quickly but stressed its limitations, including reliance on unverified sources and the inability to perform *ijtihad*. She affirmed that AI cannot replace human muftis.

Dr. Ghada Khoriba highlighted AI's potential to process Islamic knowledge at unmatched scale, generate summaries and drafts, identify relevant sources, analyze online discourse, provide accurate translations, and preserve Islamic heritage. She presented practical examples of how AI could support, rather than replace, muftis.

News

DAAD Visit to Nile University

A delegation from the German Academic Exchange Service (DAAD) visited Nile University to co-organize a symposium with the School of Biotechnology and Cairo University set to take place in October this year under the framework of the Clusters of Scientific Innovation in the Middle East and North Africa (COSIMENA), a funding initiative by the DAAD. The visit was organized and hosted by the School of Biotechnology, including Dr. Amr Farouk Abdelkhalik, the Dean of the School of Biotechnology, Dr. Asmaa Abushady, Vice Dean and Program Director at the School of Biotechnology, Dr. Mariam Gamaleldin, Dr. Raghda Ramadan, and Dr. Sherif Abouelhadid, Assistant Professors at the School of Biotechnology.



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

The delegation was welcomed by Dr. Essam Roshdy, Acting President of Nile University, Dr. Ahmed ElMahdy, Dean of the School of Information Technology and Computer Science, Dr. Amr Safwat, the Dean of the School of Engineering and Applied Sciences, and Ahmed Saleh, the Executive Director of the Innovation, Entrepreneurship, and Competitiveness Center. The delegation had a tour around the research centers and facilities across the university and explored opportunities for further collaborations between Nile University and the DAAD.

Empowering Tomorrow's Biomedical Informatics Innovators

We're thrilled to announce a strategic Memorandum of Understanding (MOU) between Health Insights and Nile University, designed to elevate the future of biomedical informatics in Egypt.

This partnership will:

- Offer Hiring opportunities:

HealthInsights will provide diverse job opportunities at the company for Biomedical Informatics program graduates at the school of ITCS, Nile University.

- Undergraduate scholarships:

HealthInsights will provide undergraduate scholarships dedicated for Biomedical Informatics program applicants, empowering them to achieve new heights in research and innovation.

By bridging academia with industry, this alliance unlocks real-world experience, financial support, and mentorship, equipping students and graduates to transform the biomedical informatics sector with cutting-edge talent and expertise.



News

Launching NUSCE English Enhancement Program - Batch #06 Morning Classes

We are excited to announce the English Enhancement Program for Youth (Ages 6 to 17) - Batch #06, featuring morning classes for Movers, Flyers 1, Flyers 2, and Pre-KET 1.

Watch your child's language skills flourish in our engaging and interactive sessions! Our expert instructors provide personalized learning experiences that make mastering English fun and effective.

Key Details:

- Ages: 6 to 17
- Classes Offered: Movers, Flyers 1, Flyers 2, Pre-KET 1

Don't forget to ask for the placement test!



Nile University Celebrates the 20th Edition of the Undergraduate Research Forum (UGRF) – First International Edition



Nile University proudly organized and hosted the 20th edition of the Undergraduate Research Forum (UGRF), marking a historic milestone as the first international edition of this pioneering academic initiative.

This year, the forum achieved extraordinary reach, receiving 800+ projects from 10 countries, affiliated with 50+ universities and 100+ schools, with the best 80+ juries selected based on Scopus profiles and H-index achievements. The projects were evaluated by a distinguished panel of international and national juries, who provided valuable feedback and recognition to the outstanding contributions of participating students.

UGRF 2025 created an inspiring environment where undergraduate researchers presented their prototypes, received feedback from esteemed juries, and engaged in rich discussions that bridged education, innovation, and entrepreneurship. The forum reinforced NU's commitment to empowering students to build strong research profiles, many already indexed in Scopus, with contributions to conference papers and even book chapters, remarkable achievements at the undergraduate level.

Over the past decade, the impact of UGRF has been transformative. From a modest start in 2015, the forum expanded into a national competition by its 10th edition in 2020 and today stands as an international platform for undergraduate research and innovation. With more than 180 papers published by NU undergraduates.

News

Code on Wheels: Dr. Ahmed Soltan Explores the SDV Revolution

Dr. Ahmed Soltan, Associate Professor and Director of the Nanoelectronics Integrated Systems Center (NISC) at Nile University, took part in a panel discussion on “Code on Wheels: The SDV Era in China & Europe” at the AUC Innovation Hub.



Dr. Soltan shared his insights on the future of software-defined vehicles (SDVs), highlighting the differences in product development lifecycles between China and Europe, as well as the critical role of cybersecurity frameworks in ensuring safe and secure automotive innovation. His contribution emphasized the importance of aligning global standards to accelerate innovation while maintaining rigorous safety and compliance measures.

This participation reflects Nile University’s strong engagement in shaping discussions at the intersection of technology, regulation, and industry, and underscores its commitment to advancing innovation in emerging technologies.

Memorandum of Understanding (MOU) between Health Insights Group and Nile University

Nile University and Health Insights Group proudly signed a strategic Memorandum of Understanding (MOU) aimed at advancing the future of biomedical informatics in Egypt.



Through this partnership, Hiring Opportunities: Health Insights provided diverse job opportunities for graduates of the Biomedical Informatics Program at the School of ITCS, Nile University.

Undergraduate Scholarships: Health Insights offered undergraduate scholarships dedicated to applicants of the Biomedical Informatics Program, empowering them to achieve new heights in research and innovation.

By bridging academia and industry, this alliance delivered real-world experience, financial support, and mentorship, equipping students and graduates to contribute cutting-edge talent and expertise to the transformation of the biomedical informatics sector.

News

Nile University Summer Internship 2025: A Global Hub for Research and Innovation



The Nile University Research Internship Summer 2025 attracted remarkable global interest, receiving over 3700 applications from more than 100 universities worldwide across 13 countries. A total of 157 interns were accepted to work under the guidance of 23 NU professors on 47 research topics within five research centers.

With the highest representation from Egypt (98 universities) alongside strong participation from Nigeria, India, Italy, Malaysia, and beyond, the program emphasized NU's growing international reach and reputation. This internship not only fostered research excellence but also strengthened NU's role as a hub for innovation and global collaboration.

EVENTS



Events

Edugate Cairo & Alexandria

Nile University participated in the 4-day long Edugate fairs in Cairo and Alexandria, connecting with hundreds of enthusiastic students all over Egypt. This was a wonderful opportunity to showcase our programs and answer students' questions about their future at NU.



Nile University's Open House

Our last Open House of the season was a full one, welcoming many eager students and families. Guests explored NU's programs, labs, and vibrant student life, gaining a first-hand experience of the campus atmosphere.



Discovery Tours

Throughout the month, Nile University organized Discovery Tours for interested students and their families. These tours offered a unique opportunity to engage with faculty members and explore our state-of-the-art campus facilities. Attendees enjoyed guided visits that highlighted our modern classrooms, laboratories, and collaborative spaces, allowing both students and parents to envision their future at NU and learn about the supportive community that awaits them.



Civil Engineering Summer Program

Nile University hosted a two-day Civil Engineering Summer Program, where students participated in hands-on activities that provided a deeper understanding of the field and its real-world applications.



Ambassadors Team Celebration

We proudly celebrated our Ambassadors Team, honoring their dedication and outstanding contributions this season. Their efforts were instrumental in welcoming and guiding prospective NU students, helping to create a supportive and engaging environment.



Events

Celebrating Our Summer Camp 2025 & English Course Graduates

What an unforgettable journey! Our Summer Camp 2025 and English Course graduates have worked hard, learned, and had a blast along the way. We celebrate not just their certificates, but also their growth, friendships, and the lasting memories they've created.

Congratulations to everyone!



Nile University Hosts Forum “Youth of Egypt 2030: A Partnership for Tomorrow”

Nile University organized and hosted the forum “Youth of Egypt 2030: A Partnership for Tomorrow,” under the auspices of the Ministries of Youth and Sports, Awqaf, and the Egyptian Fatwa House.

The opening session was attended by Dr. Ashraf Sobhi, Minister of Youth and Sports, and Dr. Osama Al-Azhari, Minister of Awqaf. The forum was organized by the School of Continuing Education at Nile University in collaboration with the initiative “Engineers for Sustainable Egypt,” affiliated with the Egyptian Federation of Youth Entities.



STUDENT LIFE



Student Life

NU ICPC: ECPC Qualification 2025 - Alexandria



The first phase of the ICPC competition was successfully held at AAST in Alexandria. Students showcased their problem-solving and programming skills in a high-energy contest. Congratulations to the seven advancing teams! We are proud to see them represent our university on the national stage!

NU ICPC: ECPC 2025 – Alexandria



On August 8, 2025, the Egyptian Collegiate Programming Contest (ECPC), the second phase of the prestigious ICPC, took place at AAST in Alexandria.

Our seven advancing teams competed against top students from universities across Egypt, and we are thrilled to announce that three of our teams qualified for the next level — the ACPC (African & Arab Collegiate Programming Contest). Congratulations to all!

Student Life

Black Theatre Shines with “Al-Masrahaya”



Black Theatre is thrilled to announce the resounding success of its 11th theatrical production, Al-Masrahaya, which took place on August 8, 2025. The performance attracted nearly 1,000 attendees, filling the hall to capacity with distinguished TAs, faculty members, students, and guests from the broader community.

The show featured a remarkable cast of 25 student actors, whose talent and creativity captivated the audience throughout the evening. Behind the scenes, a dedicated media and PR team of 15 students worked tirelessly to ensure flawless promotion and execution of the event.

The enthusiastic response, characterized by continuous applause and positive feedback, solidified Al-Masrahaya as one of Black Theatre’s most memorable achievements. This event not only showcased the power of student-led creativity but also reinforced Black Theatre’s vital role as a vibrant cultural and artistic platform at Nile University.

AIESEC Celebrates Diversity at Global Village '25



The Global Village, hosted by AIESEC at Nile University on August 15, 2025, was an unforgettable celebration of culture, diversity, and unity. This year, we proudly welcomed over 400 delegates, including more than 200 international participants representing 15+ countries.

The event was alive with vibrant cultural booths, traditional performances, music, and delicious food, creating a true atmosphere of global connection and exchange.

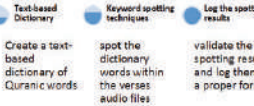
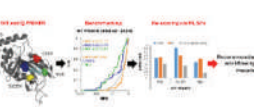

What made this event truly remarkable was the seamless organization and collaboration among participants. With incredible support from our university and the students’ union, everything ran smoothly, allowing both local and international attendees to fully enjoy the experience.

The Global Village offered delegates the chance to showcase their traditions while learning about others, strengthening bonds between cultures, and demonstrating the power of such exchanges. It was a day filled with fun, inspiration, and unforgettable memories—bringing the world closer together.

PUBLICATIONS



NU Publications on Scopus during Aug. 2025

	<p>A Purely Meshless Penalty 2D Formulation for Navier–Stokes Equations NU Author: Ahmed M. M.Hasan Source: International Journal for Numerical Methods in Fluids</p>
	<p>Arabic Speech Recognition for Quranic Words: Building an Audio Dictionary NU Author: Sahar Ali Fawzi Source: Menoufia Journal of Electronic Engineering Research</p>
	<p>Benchmarking the Structure-Based Virtual Screening Performance of Wild-Type and Resistant PfdHFR Using Docking and Machine Learning Re-Scoring NU Author: Tamer M. Ibrahim Source: Drug Design, Development and Therapy</p>
	<p>Compression-enhanced Three-Pass Protocol for secure and bandwidth-efficient image transmission NU Author: Salem F. Hegazy Source: Journal of Information Security and Applications</p>
	<p>Drought and salinity adaptive mechanisms in japonica and indica/japonica rice varieties: a bilateral comparative study NU Author: Mohamed Hazman Source: Egyptian Journal of Botany</p>
	<p>Effect of coupled rotational and transverse vibration on the vortex structures around a rectangular cross-section NU Author: M.Emadeldin , Mahmoud Shaaban Source: Journal of Physics: Conference Series</p>
	<p>Ferrite-based nanomaterials for photocatalytic CO2reduction: Synthesis, properties, and mechanistic insights NU Author: M.Abd Elkodous Source: Journal of CO2 Utilization</p>
	<p>FPGA-based Neural Network for Arabic and English Handwritten Digit Recognition NU Author: Hisham M. Elrefai, Lobna A. Said Source: 21st International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuits Design Smacd 2025</p>
	<p>Insights into the tripartite relationship between cervical cancer, human papillomavirus, and the vaginal microbiome: a mega-analysis NU Author: Hannah H. Rashwan, Mohammed H. Ali,Mazen M. Mostafa , Mohamed Mysara Source: Human Genomics</p>
	<p>Investigation of Reconfigurable CORDIC Modes and Efficiency NU Author: Hisham M. Elrefai, Lobna A. Said Source: 21st International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuits Design Smacd 2025</p>

NU Publications on Scopus during Aug. 2025

	<p>Metagenomic insight into drought-induced changes in the Egyptian wheat rhizosphere microbiome NU Author: Mohamed El-Hadidi, Manar H. Taha Source: World Journal of Microbiology and Biotechnology</p>
	<p>ML-Aided Traffic-Aware Base Station Sleep Threshold Design with User Throughput Guarantees NU Author: Mohamed Zaki Source: Proceedings of the 11th IEEE International Conference on Network Softwarization Netsoft 2025</p>
	<p>Nonlinear finite-element analysis of a two-dimensional panel oscillating in supersonic flow NU Author: Amr G. Guaily Source: Mathematics and Mechanics of Solids</p>
	<p>On the Design of Complex Coefficient Multifunction Filters NU Author: Ahmed S. Elwakil Source: International Journal of Circuit Theory and Applications</p>
	<p>Survey of IoT multi-protocol gateways: Architectures, protocols and cybersecurity NU Author: Salma H. Abdelwahed, Lobna A. Said, Ahmed Soltan Source: Internet of Things (The Netherlands)</p>
	<p>Systematic Assessment of DGFEM Accuracy for Supersonic Flow NU Author: Tamer Heshmat Source: Journal of Physics: Conference Series</p>
	<p>UniTextFusion: A low-resource framework for Arabic multimodal sentiment analysis using early fusion and LoRA-tuned language models NU Author: Salma Khaled, Walaa Medhat, Ensaf Hussein Mohamed Source: Ain Shams Engineering Journal</p>
	<p>Unlocking the African bioeconomy and strengthening biodiversity conservation through genomics and bioinformatics NU Author: Asmaa Mohamed Abushady Source: NPJ Biodiversity</p>
	<p>Unveiling the dynamic mechanical behavior with phase-transformation and microstructural evolution in a novel dual-phase high-entropy alloy NU Author: Mohamed A. Afifi Source: Materials and Design</p>