



الكلية العالمية  
GLOBAL COLLEGE  
of Engineering and Technology للهندسة والتكنولوجيا



# RESEARCH & INNOVATION NEWSLETTER

Fueling Research Excellence and Innovation at GCET

[gcet.edu.om](http://gcet.edu.om)

Volume 1

September 2025

# CONTENTS

- 04** Abbreviations
- 05** Welcome Message
- 06** Research and Innovation Office
- 08** GCET Research Groups
- 10** Research and Innovation Committee
- 11** Research in Numbers
- 12** Events & Engagements
- 14** Fourth Student Research Day
- 16** Inspiration Stories
- 20** Research Excellence & Recognition

- 26** International Collaboration & Partnerships
- 29** Student Innovation and Leadership Club
- 30** SILC Activities
- 33** Upcoming Conference



**RESEARCH &  
INNOVATION**  
NEWSLETTER

# Abbreviations

	<b>RIO</b>	<i>Research and Innovation Office</i>
	<b>GCET</b>	<i>Global College of Engineering and Technology</i>
	<b>RIC</b>	<i>Research and Innovation Committee</i>
	<b>SILC</b>	<i>Student Innovation and Leadership Club</i>
	<b>BFP</b>	<i>Block Funding Program</i>
	<b>MoHERI</b>	<i>Ministry of Higher Education, Research and Innovation</i>
	<b>Scopus</b>	<i>Elsevier's Abstract and Citation Database</i>
	<b>FYP</b>	<i>Final Year Project</i>
	<b>MOU</b>	<i>Memorandum of Understanding</i>
	<b>KPI</b>	<i>Key Performance Indicator</i>
	<b>IEEE</b>	<i>Institute of Electrical and Electronics Engineers</i>
	<b>ICSEDI</b>	<i>International Conference on Sustainable Engineering, Digital Innovation</i>
	<b>R&amp;D</b>	<i>Research and Development</i>
	<b>PI</b>	<i>Principal Investigator</i>
	<b>Co-PI</b>	<i>Co-Principal Investigator</i>
	<b>CSCT</b>	<i>Computer Science and Creative Technologies Department</i>
	<b>EEE</b>	<i>Electrical and Electronics Engineering Department</i>
	<b>UPEM</b>	<i>Urban Planning and Environmental Management Department</i>
	<b>ME</b>	<i>Mechanical Engineering Department</i>

“

*Attention to the education sector of all types and levels and providing a supportive environment for research and innovation will be on top of our national priorities, and we will provide it with all means of empowerment as it is the basis through which our children will be able to contribute in building the requirements of the next stage.*

**Speech of His Majesty Sultan  
Haitham Bin Tarik**



**Dr. SUAD AL-KINDI**  
*The Director of the Research  
and Innovation Office*

## WELCOME

Hello everyone,  
We are thrilled to launch the very first edition of the Research and Innovation Office newsletter! This is a new platform to celebrate your achievements, share exciting updates, and keep everyone connected across GCET's vibrant research community.  
Our goal is to support and inspire you on your research journey by providing timely news, helpful resources, and opportunities for collaboration. We hope this newsletter becomes a valuable part of your academic life. Thank you for your dedication and enthusiasm. We look forward to growing together and making an even greater impact.  
Welcome aboard!  
Warm regards,

# Research & Innovation Office

## About RIO

The Research & Innovation Office (RIO) at GCET plays a central role in fostering research culture, enabling innovation, and supporting academic and student research activities. From managing funding programs to organizing conferences and workshops, RIO is committed to empowering knowledge creation and impact-driven research.

By aligning its activities with Oman Vision 2040, RIO contributes to national goals for knowledge-based development, sustainable growth, and technological advancement, while building a strong foundation for research-driven solutions that benefit society and industry.

## Meet our Team

The RIO team works collaboratively to support GCET's vision of becoming a leading hub for research and innovation in Oman.



# Research & Innovation Office

## Our Core Functions



### Research and Funding Support

Managing internal and external research funding programs, including the Block Funding Program (BFP), and assisting researchers in proposal submission, evaluation, and implementation.



### Publications and Conference Support

Facilitating the publication of research papers, book chapters, and books; coordinating participation in conferences and ensuring high-quality research dissemination.



### Facilitating Collaboration

Building partnerships with industry, academia, and research institutions locally and internationally.



### Innovation and Entrepreneurship

Promoting innovation through the Incubation Centre, Pitching Competitions, and initiatives that transform student ideas into practical, sustainable solutions.



### Aligning with Oman Vision 2040

Ensuring all research and innovation activities contribute to national goals for sustainable growth, technology advancement, and societal impact.



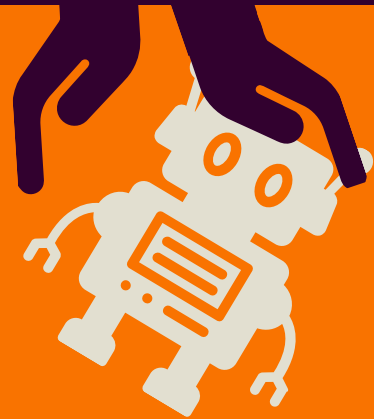
### Capacity Building and Engagement

Organizing workshops, talks, and sessions with external speakers, offering continuous learning and skill development opportunities for faculty and students.

# GCET Research Groups

## Mechanical Engineering

Focuses on renewable energy, thermal systems, advanced manufacturing, and high-performance mechanical design.



## Automation & Robotics

Develops intelligent control systems, autonomous robots, industrial automation, and AI-powered robotic applications.

## Communications



Explores 5G/6G technologies, IoT networks, optical systems, and advanced wireless communication solutions.

## Education & Community

Enhances teaching and learning through digital tools, inclusive models, community engagement, and ethical use of technology.



## Cyber Security

Studies computer/network security, digital forensics, cyber-physical systems, and secure communication protocols.



## Computer Science



Advances AI, data science, NLP, smart systems, and emerging technologies aligned with national digital transformation.



## Public Health & Environmental Management

Examines air quality, pollution, environmental risks, and machine-learning tools for healthier communities.



## Renewable Energy

Researches solar energy, energy storage, clean-energy systems, and sustainable energy applications for industry.



## Urban & Regional Planning



Covers smart cities, sustainable mobility, climate resilience, green buildings, and community-centered urban development.

GCET is committed to advancing research excellence across all disciplines. Our research groups work collaboratively to address national and global challenges

# RESEARCH AND INNOVATION COMMITTEE (RIC) 2024-2025

The Research and Innovation Office extends its sincere appreciation to the members of the RIC for their outstanding support and contribution throughout the academic year 2024-2025. Their efforts have been vital in promoting a culture of research, collaboration, and innovation across all departments at GCET.



**ME**

**Mr. Mohammed  
Abu Safaah**



**UPEM**

**Dr. Issa  
Mahmoud**



**CSCT**

**Dr. Muzammil  
Hussain**



**EEE**

**Dr. Muhammad  
Irfan Memon**



**FS**

**Dr. Afsaneh  
Shokri**

# Research in Numbers

## Publications & Academic Output AY 2024-2025

**6**   
**Books Published**

**28**   
**Book Chapters**

**30**   
**Journal Publications**

**30**   
**Conference Participations**

**20,950**   
**External Funds Secured**  
OMR

**A YEAR OF IMPACTFUL RESEARCH, STRONG ACADEMIC CONTRIBUTIONS, AND SUSTAINABLE GROWTH—  
ADVANCING GCET'S VISION IN ALIGNMENT WITH  
OMAN VISION 2040.**

# RIO ADVANCES INTERDISCIPLINARY DIALOGUE THROUGH FORTNIGHTLY SEMINAR SERIES

RIO at GCET continues to strengthen the college's research culture through the Internal Fortnightly Research Groups Seminar Series, now a key platform for interdisciplinary engagement. Each session showcases the diverse work of GCET's nine research groups, encouraging dialogue, collaboration, and knowledge exchange.

The series opened with Mr. Mohammed Abu Safaqah (Mechanical Engineering), who presented "Application of Nanotechnology in Material Science", drawing strong interest and cross-disciplinary discussion. This was followed by Dr. Irfan Memon (Communications) with "The Future of Computing: All Optical Logic and Ultrafast Data Processing", sparking conversations on emerging computing technologies.

From the Education and Community group, Dr. Ahmed Hosseini delivered a seminar on the ethical and responsible use of AI in lifelong learning, highlighting transparency, data diversity, and global best practices. The Renewable Energy group was represented by Dr. Issa Mahmoud, who presented "Solar Thermal Energy Technology and Parabolic Trough Collectors", emphasizing sustainable heat solutions aligned with Oman's energy priorities.



The series also featured Mrs. Sazya Firdaus (Public Health & Environmental Management), who shared findings from her TRC-funded research on land evaluation using soil moisture and remote sensing, highlighting applications for sustainable agriculture.



Together, these seminars reflect GCET's commitment to fostering a vibrant, collaborative, and forward-looking research environment



## GCET GO GREEN SOLAR POWER STATION ENTERS SECOND PHASE WITH ADVANCED WEATHER MONITORING SYSTEM

The GCET Go Green (GGG) solar power station has entered its second phase of development with the installation of a state-of-the-art weather station. This strategic enhancement is designed to strengthen research capabilities in renewable energy, artificial intelligence, climate science, and other related disciplines.

Co-funded by the Global College of Engineering and Technology (GCET) and the Ministry of Higher Education, Research, and Innovation (MoHERI) through the Block Funding Program, the weather station has been installed as part of the Healthy Air Wide-Around with Network Assessment (HAWANA) project. The initiative is led by Principal Investigator Dr. Suad Al-Kindi, Director of the Research and Innovation Office (RIO), and Co-Principal Investigator Dr. Nemat El-Hassan from the Department of Electrical and Electronics Engineering (EEE).

The system captures real-time data—temperature, humidity, wind, and solar radiation—displayed on an interactive online platform. This upgrade complements the existing 10.8 kW solar system, which has produced over 30 MWh of clean energy and reduced carbon emissions by more than 14 tons.

The new station strengthens ongoing research, supports student learning, and provides data for external collaboration.



**SMART WEATHER  
STATION ENHANCES  
GCET INNOVATION.**

# FOURTH STUDENT RESEARCH DAY



## Empowering Student Research

The Student Research Day is an annual flagship event organized by the Research and Innovation Office (RIO) at the Global College of Engineering and Technology (GCET). The event aims to nurture a vibrant research culture among students and to provide a platform where creativity, innovation, and academic excellence can be showcased and celebrated.

Now in its fourth edition, the event brought together final-year students from all departments to present their research and innovative projects before panels of evaluators from academia and industry. The program featured engaging project exhibitions, interactive discussions, and presentations highlighting novel ideas that address real-world challenges across diverse disciplines.

## Recognizing Outstanding Projects

Throughout the day, students presented a wide range of projects focusing on sustainability, digital transformation, smart systems, and environmental solutions. Projects were evaluated on content quality, clarity and organization, visual presentation, and delivery. To honor excellence, two top projects were selected from each department, while one project received the “Best of the Best” award based on public and audience nomination.

The highlight of the event was the “Best of the Best” award, selected through public and audience nomination.

Eco-Resort and Wellness Retreat – Zakariya Mohammed Salim Al-Mukhaini



## Celebrating Innovation and Impact

The event concluded with an award ceremony celebrating the achievements of the winners and acknowledging the valuable support of academic supervisors, evaluators, and volunteers. Organized annually by the Research and Innovation Office (RIO) with support from all departments, the Student Research Day continues to inspire a culture of research, innovation, and knowledge creation at GCET—supporting the goals of Oman Vision 2040.





## AWARD-WINNING PROJECTS 2025

### UPEM

- Assessment of Hydrogen Sulfide (H<sub>2</sub>S), Carbon Monoxide (CO), and Volatile Organic Compounds (VOC) Levels in a Hospital Near an Oil Refinery, Sewage Treatment Plant (STP), and Major Traffic Roads – Fuad Mohamed Ali Al Maskari
- Experimental Comparative Analysis of Converting Used Cooking Oil and Date Seeds into Biodiesel – Fatam Ali Mohammed Al Shehhi

### EEE

- Machine Learning Based on Foreign Object Debris Detection on Runway – Abdullah Musabab Said Al Salhi
- EcoClear: Leveraging AI and IoT for Sustainable Waste Management and Circular Economy Transition in Oman – Hadeel Saif Sulaiman Al Humaidi

### CSCT

- Developing an AI-Enhanced Natural Language Assistant for Kali Linux to Simplify Cybersecurity Education – Ahmed Osama Mohamed Zaki
- PhishGuard AI – Amir Mehdi Memari

### ME

- Study on Additive Manufacturing of Steel Material – Saqer Abdallah Saif Al-Sheidi
- Design and Analysis of a Pumping System Controlled by a Variable Frequency Drive (VFD) for Enhanced Energy Efficiency and System Performance – Mohammed Shaghiyal Salim Al Salti

# INSPIRATION STORIES



## Elyone Drones



In 2025, two visionary women – Hiba El-Bouri and Fatema Al-Jamei – set out to transform how we see and sense the world from above. They founded Elyon Drone, a bold technology startup driven by the idea that drones could do far more than capture images; they could become tools for safety, health, and progress. Their journey began with a challenge: oil fields across the region faced invisible threats from hydrogen sulfide (H<sub>2</sub>S) gas, a silent hazard with serious risks. Elyon Drone developed a breakthrough – drones equipped with advanced sensing systems capable of detecting and mapping H<sub>2</sub>S in real time. The data these drones delivered empowered HSE managers to act swiftly, preventing accidents and saving lives.

Their innovation quickly gained recognition. Competing in the GCET Pitch Battle 2025, Elyon Drone soared above the competition, securing first place. This victory opened doors to incubation at the IIC, where the founders refined their technology and expanded their vision under the guidance of seasoned mentors. Soon after, the startup was selected to join Oman's Space Program Accelerator, placing them at the cutting edge of drone technology and remote sensing on a national and global scale. From a bold idea to a celebrated innovation, Elyon Drone's story is one of courage, ingenuity, and the power of two entrepreneurs who dared to reimagine what drones could achieve.



# INSPIRATION STORIES

## Talib Company

From the classrooms of the Global College of Engineering and Technology (GCET), a spark of entrepreneurial spirit gave birth to Talib, a student-led startup with a mission to make the lives of higher-education students easier by promoting high-quality accommodations and tutors. What began as an idea among forward-thinking students quickly transformed into a venture that captured national attention. With the support of GCET's Innovation and Incubation Center (IIC), Talib was nurtured through mentorship, technical guidance, and access to critical resources that shaped its journey.

The turning point came at GHEDEX 2024, where Talib showcased its vision to a national audience. Industry leaders, investors, and academics were impressed, marking the startup's breakthrough into Oman's innovation scene. Riding on this momentum, Talib went on to shine at Sultan Qaboos University's Science Festival, winning Best Project among all participants. Judges praised its clarity of purpose, strong business model, and the scalability of its solution.



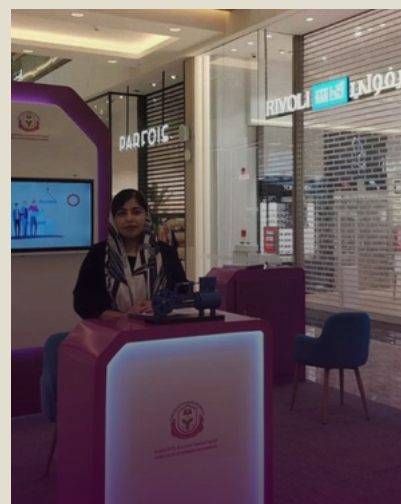
Talib's rise didn't stop there. At the MEC Visionary Ventures Challenge, the team delivered a refined pitch that highlighted their market readiness and promising financial roadmap. Competing against startups from across Oman, Talib stood out, attracting interest from potential collaborators eager to support its next phase.



Talib's story is not just about victories; it's a testament to innovation, persistence, and the power of student entrepreneurship. Today, Talib stands as an inspiration to peers at GCET and beyond, proving that with vision and determination, student-led ventures can play a vital role in shaping Oman's innovation landscape.

## Fatma's IP Achievement

In a world where QR codes have become part of our daily lives, from restaurants to banks to hospitals, the SecureQR project was born as a story of innovation that responds to an urgent need. Imagine a student receiving a QR code to access their exam, or an employee at a bank using it to pay a bill, or even a traveler scanning a code to get a transit ticket; all of them face a hidden danger: that this simple code could turn into a gateway for data breaches or identity theft. This is where SecureQR mobile app, developed by Fatemah Mohammed Haghnejat, a cybersecurity and forensics student, comes in, which not only scans codes but also guards them. With every scan, the application stands as a digital guardian, opening the link through stages of verification, examining suspicious words, ensuring the protocol, and linking itself to global threat intelligence sources to confidently tell the user: this link is safe or dangerous. The amazing thing is that the application not only protects but also educates; it reveals to the user the reason for the classification and gives them the choice to proceed or retreat.



### TRANSFORMS A SIMPLE QR CODE INTO AN INTEGRATED SECURITY EXPERIENCE

The app was filed for a copyright from the Ministry of Commerce, Industry, and Investment Promotion. The filing process was done via the IIC center, which helps in the process of patenting students and research innovations, and protect the rights of the owners. The story of SecureQR is a story of transforming a simple code into an integrated experience.

# INSPIRATION STORIES



## ◆ GCET Students Present Innovative Projects at Traffic Awareness Week

GCET students participated in Traffic Awareness Week at the Sultan's Armed Forces Transport Camp under the patronage of Major General Matar bin Salim Al Balushi. The event highlighted road safety through exhibitions and student-led innovations.

Students presented five impactful projects, including a Camel Tracking System, Smart Pedestrian Crossing for People with Special Needs, Smart Bridge for Wadi Crossings, and Electricity Generation from Speed Bumps. Another notable project, Relieving Traffic Congestion with Least Investment in Infrastructure, was supported by the Block Funding Program.

RIO continues to encourage student engagement in national events. This participation allowed GCET students to showcase practical solutions, apply their learning, and contribute meaningfully to community safety.

GCET  
ACHIEVES  
RECOGNITION  
FOR  
EXCELLENCE  
IN  
RESEARCH  
AND  
INNOVATION  
AT  
GHEDEX  
2025

GCET won the Best University Research Project Award at GHEDEX 2025 for its nationally impactful project, HAWANA – Healthy Air Wide-Around with Network Assessment. Led by Dr. Suad Al-Kindi and Dr. Nemat El-Hassan, the project received OMR 20,000 through MoHERI’s Block Funding Program.

HAWANA collects real-time environmental data to study personal exposure to air pollutants across Oman, aiming to support public health, reduce healthcare burdens, and align with WHO guidelines. The project is conducted in collaboration with UTAS and endorsed by the Environment Authority, with more than 80 contributors, including 15 FYP students.

The team has carried out awareness activities at SQU, UTAS-Muscat, and the Oman Science Festival 2024, sharing key findings and recommendations.

Internationally, HAWANA gained visibility through presentations at NewTech’24 in Barcelona and the First International Student Conference at GUtech. The project reflects GCET’s commitment to impactful applied research supporting national priorities and the Sustainable Development Goals (SDGs).

RECOGNIZING  
EXCELLENCE IN AIR  
QUALITY RESEARCH



# GCET FACULTY MEMBER RECOGNIZED AMONG THE WORLD'S TOP 2% SCIENTISTS (2025)



The GCET proudly congratulates Dr. Jeyaprakash Natarajan, Associate Professor in Mechanical Engineering, for being included in the Stanford University & Elsevier Top 2% Scientists List (2025) under Enabling and Strategic Technologies – Materials.

This prestigious ranking highlights the world's most influential researchers based on citation impact and the quality of their scientific contributions. Dr. Jeyaprakash's work spans materials science, additive and smart manufacturing, tribology, corrosion, oil and gas, and surface engineering, bridging fundamental research with real-world industrial applications. His research focuses on developing innovative materials and manufacturing processes that advance high-performance engineering systems and sustainable solutions.

Dr.  
Jeyaprakash  
Joins Top 2%  
Scientists

"I am deeply honored to be recognized among the world's leading scientists," said Dr. Jeyaprakash. "This reflects not only my efforts but also the guidance and collaboration of mentors, colleagues, students, and institutional partners. It reinforces my commitment to research that creates meaningful industrial and societal impact."

This achievement underscores GCET's growing global research footprint and its dedication to excellence in engineering education and innovation-driven research.

# DR. ABDULLAH AL-NADABI RECEIVES RASHID BIN HUMAIID CULTURAL AND SCIENCES AWARD



Dr. Abdullah Al-Nadabi, a distinguished faculty member at GCET, has been honored with the Rashid bin Humaid Cultural and Sciences Award in its 41st cycle (2024) in the domain of Applied Scientific Research and Pure Science (Environmental Science).

This prestigious recognition was awarded for his groundbreaking research paper titled: “Carbon Storage through Nature-Based Solutions to Enhance Sustainability: The Case of Muscat City.” The study explores innovative approaches to urban carbon management, emphasizing sustainable, nature-based interventions that improve environmental resilience while mitigating climate change impacts.

Dr. Al-Nadabi’s work exemplifies the critical role of scientific research in addressing pressing environmental challenges, and this award highlights his contributions to advancing sustainable urban development and environmental innovation in Oman.



# DR. KHOULA AL HARTHY RECOGNIZED AMONG THE TOP 20 WOMEN IN CYBERSECURITY WORLDWIDE



GCET is proud to highlight a remarkable global achievement by Dr. Khoula Al Harthy, Head of the Computer Science and Creative Technologies Department, who has been selected among the Top 20 Women in the World in Cybersecurity at the prestigious Cybersecurity Woman of the World Edition held in Como, Italy.

This international recognition celebrates exceptional women making significant contributions to cybersecurity through innovation, research, leadership, and community impact. During the event, Dr. Khoula proudly raised the Omani flag on a global stage—marking the first major international milestone in her professional career.

In her remarks, Dr. Khoula expressed deep gratitude to her family, colleagues, and supporters for their constant encouragement, noting that this accomplishment reflects the collective strength behind her journey.

This achievement showcases not only Dr. Khoula's excellence but also GCET's growing leadership in advancing cybersecurity and emerging technologies.

# GCET SHINES ON GLOBAL STAGE AT WORLD SMART MINING CONFERENCE 2025



Dr. Jeyaprakash Natarajan, Associate Professor in the Department of Mechanical Engineering at GCET, achieved international recognition at the World Smart Mining Conference 2025 in China. In collaboration with Prof. Cheng Yanhai from the China University of Mining and Technology (CUMT), he presented a paper titled “Research and Cooperation Progression on Minerals and Mining Equipment between Oman and CUMT.”

The presentation highlighted advanced equipment design, sustainable mineral exploration, and knowledge exchange between Oman and China. For his outstanding contribution, Dr. Jeyaprakash was honored as the Outstanding Presentation Award recipient, reflecting the significance of international research partnerships and GCET’s growing global research impact in the mining sector.



Outstanding  
Presentation Award  
recipient

# DR. TALEB MOAZZENI WINS GOLD MEDAL FOR INNOVATIVE NOISE- CANCELLING EARPLUG IN SWITZERLAND

---



We are proud to announce that Dr. Taleb Moazzeni, Associate Professor in the Department of Electrical and Electronics Engineering at GCET, has been awarded the Gold Medal at a major International Innovation Competition in Switzerland.

His winning innovation, “Active Noise-Cancelling Earplug with Helium Chamber,” was selected from over 1,100 inventive projects representing 27 countries worldwide, showcasing GCET’s commitment to cutting-edge research and global recognition in technological innovation.

Gold Medal Awarded to Dr. Taleb for  
Cutting-Edge Noise-Cancelling  
Invention



## Winter Camp at PGU University, Bushehr, Iran

In February 2025, a delegation of students from the Global College of Engineering and Technology (GCET), Oman, embarked on an unforgettable journey to the Persian Gulf University (PGU) in Bushehr, Iran, for a week-long Winter Camp that blended academic excellence with cultural immersion and industrial exposure. This international camp, hosted by PGU, was a unique opportunity for GCET students to broaden their horizons, gain hands-on insights into engineering practices, and experience the vibrant academic and cultural fabric of Iran. The camp was part of GCET's ongoing commitment to providing students with global learning experiences and strengthening international partnerships. The week began with two cutting-edge technical workshops led by PGU's esteemed faculty, focusing on digital oil field technologies and advanced processing systems. These sessions offered students a glimpse into real-world applications of engineering theories and introduced them to innovative research trends in Iran's energy sector. Students engaged actively in hands-on learning and explored advanced tools and techniques used in the oil and gas industry.



## GCET Signs MoU with Shenyang University of Technology, China

The Global College of Engineering and Technology (GCET) has officially signed a Memorandum of Understanding (MoU) with Shenyang University of Technology (SUT), China, marking a significant milestone in GCET's international engagement efforts.

This strategic collaboration focuses on:

- Joint Research & Scholarly Activities – Including co-organized conferences, joint publications, and postgraduate co-supervision.
- Innovation & Incubation Initiatives – Supporting technology transfer, entrepreneurship projects, and international networking events.

- Student & Faculty Mobility – Facilitating exchange programs, summer schools, and cultural immersion experiences.

The partnership strengthens academic and research ties, broadens opportunities for GCET students and faculty, and paves the way for impactful initiatives in the years ahead.

Written by: Mohammed Altayeb

**GCET and Shenyang University of Technology (SUT) collaborate on research, publications, and joint funding opportunities. They also organize seminars, workshops, and conferences to promote knowledge exchange and strengthen academic ties.**



## Research and Innovation Benchmarking with ICEM, MUC & BUC

The Research and Innovation Committee (RIC) has conducted benchmarking activity with three higher educational organizations: International College for Engineering and Management (ICEM), Majan University College (MUC), and Buraimi University College (BUC). The benchmarking visits have been conducted during the academic year 2024/2025.

The benchmarking activity at ICEM focused on several key aspects related to the Research Policy, namely: internal funding, research staff reduction model, funding for international conferences, publication incentives, research teaching nexus (RTX), and student research support. The results proposed a major adjustment in the GCET Research Policy.

The other benchmarking activity at MUC focused on: consultancy, entrepreneurial skills module, and the innovation activities at college level. The two institutes have agreed on promoting each others innovation-related activities. With regards to BUC, the benchmarking focused on Intellectual Property (IP), research ethics, and research teaching nexus (RTX).

All in all, the benchmarking with ICEM, MUC, and BUC offered several strategic and operational advantages for GCET. It enabled the adoption of best practices in research management, research governance, and entrepreneurship curriculum design, as well as innovation-best-practices to align with global standards and industry demands. Benchmarking also strengthens GCET's reputation, aiding in accreditation efforts and increasing visibility among stakeholders.



## ROLES OF THE CLUB

- Emphasize the role of innovation and entrepreneurship among students and their peers.
- Organize events to encourage research and innovation in GCET.
- Conduct workshops and take part in exhibitions.
- Celebrate relevant national days, international days, and achievements.
- Encourage team work and extra-curriculum activities.

## SCIENCE AND INNOVATION LEADERS CLUB (SILC)

Science and Innovation Leaders Club (SILC) is a space for GCET students to bring ideas to life, explore entrepreneurship, and work together on exciting projects. From fun workshops and exhibitions to celebrating special days and big achievements, SILC makes learning beyond the classroom more inspiring. It's all about teamwork, creativity, and building the skills to become future innovators.

## Meet SILC Team

**VICE CHAIR**  
Sara Shaheen

**CHAIR**  
Lamees Ali Al Hanshi

**CLUB SUPERVISOR**  
Mr Waleed Al Maawali

**SECRETARY**  
Omar Saar

**SCIENTIFIC ADVISOR**  
Osama Al Falahi

**TREASURER**  
AbdulNoor Al Hanaai



---

# PITCH BATTLE



The Scientific Innovation Leaders Club (SILC) hosted an exciting Pitch Battle, showcasing the entrepreneurial spirit and creativity of GCET students. Held in the reception hall, the event gave young innovators a platform to pitch impactful ideas to a panel of judges and an engaged audience.

Participants delivered strong, three-minute pitches that highlighted real-world problem-solving and GCET’s commitment to fostering innovation, critical thinking, and practical skills. Ideas spanned multiple fields—including logistics, fintech, cybersecurity, ed-tech, robotics, and an especially strong interest in biotechnology, reflecting GCET’s growing potential as a hub for startup innovation in Oman.

From 12 competing startups, three winners were selected:

- 1st Place: Elyone Drones – drone technology for identifying optimal oil rig drilling sites
- 2nd Place: Plume+ – biodiesel production from chicken feathers
- 3rd Place: PureEnergy – bio-reaction-based battery innovation

## Pitch Battle sparks creativity and startup ideas

More than a competition, the Pitch Battle encouraged networking among students, faculty, industry professionals, and potential investors—sparking meaningful conversations about technology, entrepreneurship, and future opportunities.



# HIKE & INNOVATE !

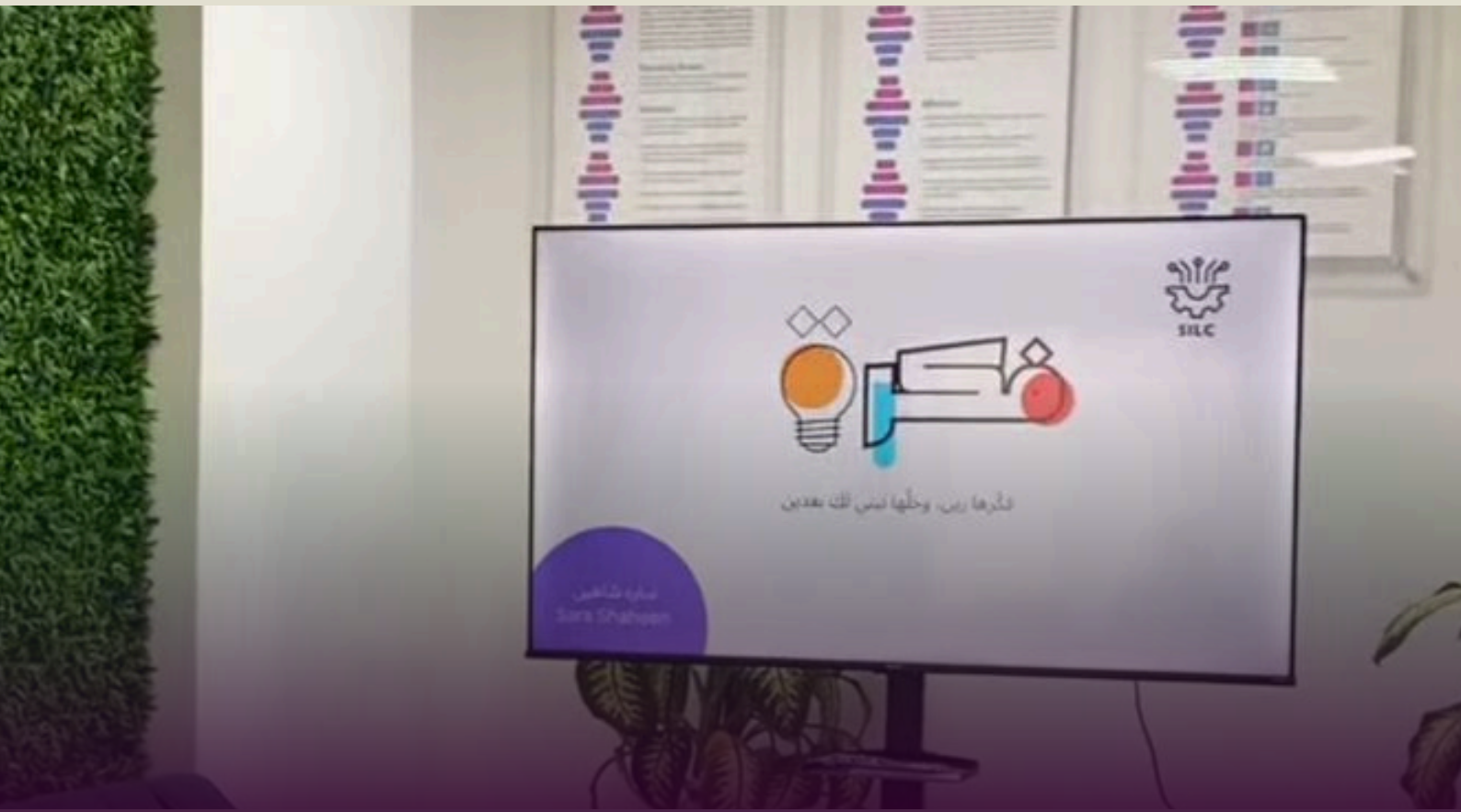
## WHERE ADVENTURE MEETS IDEAS



SILC organized a refreshing Hike & Innovate event, combining outdoor adventure with creative thinking. Students explored new trails, shared ideas, and engaged in informal discussions on innovation and leadership.

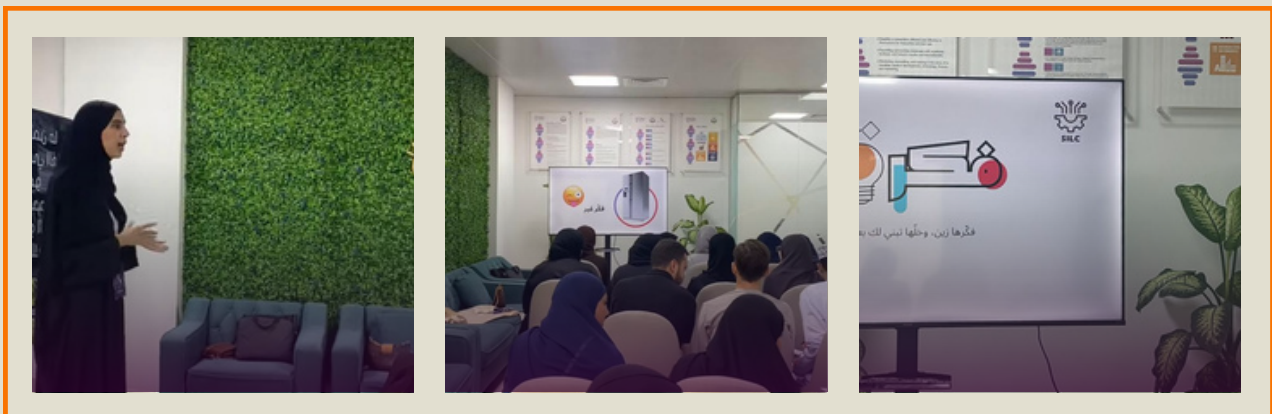


The activity encouraged teamwork, wellbeing, and fresh perspectives—showing that inspiration can happen anywhere, even on a mountain path.



# FIKRA WORKSHOP

Presented by student Sara Shaheen at the Innovation & Incubation Center (IIC), Fikra Workshops inspire creativity by guiding students to generate new ideas and turn them into practical innovations. The sessions also foster confidence, teamwork, and an entrepreneurial mindset.





**ICSEDI**

10-12 FEB 2026 MUSCAT

# GCET Gears Up for ICSEDI'26

GCET is actively preparing to host the International Conference on Sustainable Engineering and Digital Innovation (ICSEDI'26) from 10-12 February 2026, Oman Convention and Exhibition Centre (OCEC), Muscat. The conference will bring together leading researchers, industry experts, and innovators from around the world to explore advances in sustainable engineering, digital technologies, and smart solutions for global challenges.

ICSEDI'26 has attracted paper submissions from universities and research institutions across multiple countries, reflecting a strong international interest in the conference themes and a commitment to knowledge sharing on a global scale.

The conference will cover six major tracks, ranging from renewable energy and system integration to AI, data science, and smart urban planning, featuring world-renowned keynote speakers from leading universities and organizations.

The conference highlights GCET's role in fostering global collaboration, encouraging innovation, and providing a platform for knowledge exchange across disciplines.