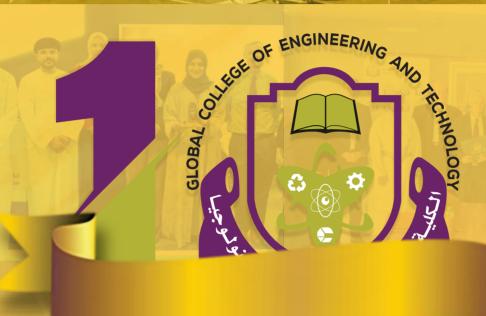
GLOBAL COLLEGE OF ENGINEERING AND TECHNOLOGY

9THIssue August 2025



"Celebrating Success: 10 Years of **Impact and Beyond"**

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Global College of Engineering and Technology P.O Box 2546, CPO Ruwi 112,

Sultanate of Oman

☑ : info@gcet.edu.om &+968 24227999 / +968 2422 7912

CONTENTS

Publication Staff

Prof. Geoffrey Elliott
(Chair)
Mr. Mario Anud Jr.
(Editorial Staff)
Mr. Tassawar Kamran
(Editor)
Mr. Ronald Gomez
(Designer)
Ms. Pooja Chhabra
(Proofreader)

Contributing Writers

Prof. Geoffrey Elliott Dr. Sulaiman Al Hasani Dr. Javeed Hussain Shaik Dr. Mira Chitt Dr. Amna Al Saadi Dr. Khoula Al Harthy Dr. Ahmad Hosseini Mr. Mario Anud Jr. Mr. Al Hussain Al Mossawi Mr. Taimoor Al Nadabi Mr. Suleiman Al Balushi Dr. Milad Heidari Dr. Nemat Elhassan Mr. Waleed Al Maawali Dr. Janaki Sivakumar Dr. Muzammil Hussain Mrs. Mohsina Mirza Mr. Tassawar Kamran Mr. Panfilo Morandante Ms. Joanne James Ms. Maisa Al Rawahi	Dr. Nemat Elhassan Dr. Muhammad Irfan Memo Dr. Mohammad Mohatram Dr. Taleb Moazzeni Dr. Mohammed Altayeb Mr. Abdelhamied Fadl Ms. Saba Mohammad Jayyu Ms. Balquees Al Shaqsi Mr. Atta Ul Wasay Ms. Bushra Al-Abri Ms. Fatema Al Harasi Hadeel Saif Al Humaidi Halima Dad Rahim Manar Al Battasi Sara Al Ghusaini Mazoun Al Marhubi Marwa waleed Al Mamari Lamees Ali Al Hanshi Sara Izzat Mustafa Mrs. Yasmin Al Masri Mr. Mohammed Abu Safaqa
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Or. Muhammad Latif Khan	Mrs. Shamsa Al-Mahrooqi
Mr. Sulieman Nasir Alzahli	Ms. Hanin Al Mudailwi
Mr. Hisham Elfadil	Mr. Marthud Faisal
Or. Sivasakthivel Thangavel	

Contributing Photographer

Mr. Khalid Al Senaidi Ms. Amaal Khan

CONTACT US:

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GLOBAL COLLEGE OF ENGINEERING AND TECHNOLOGY NEWSLETTER

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DEAN'S MESSAGE



Salam Alaykum!

Dear Treasured Colleagues,

The last Academic Year (AY) 2024-2025 was highly successful on many levels, including student recruitment, many student success stories, and staff awards. Newsletter issue covers many of the most recent success stories. For example, for the third consecutive year, we won another National Award at GHEDEX for the 'Best University Research Project (STEM)', following our 2024 GHEDEX Award for 'Student Internships'. Our students also secured several individual awards in Maths and Spelling Bees, as well recognition for company start-ups and innovation. More details on these awards contained in this issue of the GCET Newsletter.

I remain deeply grateful to everyone in the College for your dedication, professionalism, and hard work that have led to our collective success over the last two to three years. Our growing reputation in the Higher Education sector of the Sultanate of Oman has attracted attention from the Government, students, and business. We gained significant visibility at the URBAN October Exhibition in October 2024 and have hosted many delegations from around the world who are interested in our work and collaborating with us on a range of projects. In December 2024, I met Her Excellency Dr. Jokha Al Shukali, the Head of the OAAAQA, with Sir Steve West, the Vice Chancellor of the University of the West of England (UWE). We explored and discussed quality assurance approaches in the UK and Oman. GCET is being recognized for excellence in many areas. We are now frequently approached by educational and commercial institutions to sign MoUs and other agreements because our reputation has been enhanced.

Looking ahead, the College has already conducted a mid-cycle review of its Institutional Strategic Plan (ISP) 2021-2026; where each of the strategic goals was reviewed against key performance indicators and achievements; and adjustments and strategic directions articulated for the future ISP. The development of the new Insti

PROFESSOR
GEOFFREY ELLIOTT
DEAN-PRESIDENT OF COLLEGE

tutional Strategic Plan (ISP) 2026-2031 will be undertaken in Semester 1 in the Academic Year (AY) 2025-2026. In addition, the first draft of the OAAAQA Institutional Standards Assessment (ISA) submission document will be published to staff in September 2025. Staff will have an opportunity to look at, amend, and inform the ISA plan across the 6 standards and 45 criteria. This will be draft 1 of the ISA to guide our work and quality assurance processes up to September 2027, when the College is required to submit its final version of the ISA document.

Finally, I want to sincerely thank you all for your commitment to the College and each other, which enables us to move forward in a positive and collegiate manner. I encourage you all to continue to be professional is all you do to support each other and to support the students of the College in a dedicated and caring manner. Thank you for doing this so well in the past. I hope you will find this issue of the GCET Newsletter informative. interesting, enlightening. I would like again to thank Mario and his fantastic team of designers and editors -Ronaldo, Tasawar, and Pooja- for their effort and energy in producing this Newsletter.

Kindest wishes, Geoff.



Mr. Al Hussain Al Mossawi Head of MPRO

As a part of its commitment to strengthening its community presence about expanding awareness of its academic and technical programs, the college has recently participated in a number of advisory and career fairs and forums targeting school students and the local community in various governorates. These participations were carried out under the direct supervision and organization of the career counselor, in cooperation with a number of public and private institutions.

First: College participation in the major exhibitions and forums

1- GHEDEX exhibition in Muscat (7-8-9 April)

The college participated in the Higher Education and Training Exhibition "GHEDEX" held at the Oman Convention & Exhibition Centre in Muscat. The exhibition was inaugurated under the patronage of the Minister of Higher Education, Scientific Research and Innovation. Furthermore, a large

number of universities, colleges, and institutes from various countries around the world participated in this exhibition, where the college's programs were presented and academic consultations were provided to students and parents. Moreover, introductory brochures were distributed, and the visitors' inquiries were answered.

Global College of Engineering and Technology participates in several advisory and career fairs and forums.

2- UTEX Exhibition in Sohar (24-26 Feb)

UTEX Sohar exhibition is an annual event that brings together both the education sector and the labor market, where local and international universities represent their academic programs and specializations. The exhibition witnessed a multidisciplinary participation from engineering, technology, and health, in addition to training institutions, which strengthened the link between the education sector and the labor market.

The college was also presented at the UTEX exhibition that was held in the Batinah North (Sohar), which attracted a large number of high school students, those who are interested in the fields of technology and vocational education, parents and graduates from different universities and colleges.



This exhibition was visited by 60000 visitors, including school students, parents, researchers, and those who are interested.

Second: advisory and career fairs and forums in the governorates

Also, in its ongoing efforts to enhance career guidance for school students and individuals exploring educational pathways, the career guidance department organized a series of career forums across various governorates during this academic year.

These forums aim to empower students to make well-informed academic and professional decisions by exploring available educational opportunities and learning about the in-demand specializa tions in the labor market, in addition to providing direct guidance from specialists and representatives of higher education institutions. These forums are held in collaboration and coordination between career counselors and the general directorates of education in various governorates.

The college participated with the career counselors in several advisory forums in cooperation with the general directorates of education in various governorates, including the following:

COLLEGE NEWS



Al-Buraimi governorates



Dhofar governorates - Salalah



Musandam governorates



Al-Dhahirah governorates - Ibri



South al-Batinah governorates – Al-musanah



North Al-sharqiya governorates - ibra



Muscat governorates



Al-dhakhiliyah governorates -Nizwa



Al-bustan schools (May 5th



Quriyat



Al Qurm beach (May 12th)

These forums included a comprehensive introductory presentation on the college's specialization, academic and advisory support services, in addition to providing orientation workshops for students, distribution materials and informing parents and visitors about the discount offered by the college to the security agencies, government institutions and the private sector.

Objectives achieved through participation

- 1- Strengthening students' and community awareness of the college's programs and educational paths.
- 2- Enhancing the relations with schools and educational bodies across various governorates.
- 3- Attracting outstanding students and those who are interested in modern technology fields.
- 4- Providing opportunities for future collaboration in training and joint programs.

No.	Governorate	Number of Attendees	Date
1	Musandam	1,150 students	11-12 Nov 2024
2	Al Dhahirah	2,100 students	24-25 Nov 2024
3	Al Dakhiliyah	1,700 students	26-27 Nov 2024
4	South Al Batinah	1,800 students	1-2 Dec 2024
5	Muscat	1,200 students	4–5 Dec 2024
6	Dhofar	1,350 students	15–16 Apr 2025
7	North Al Sharqiyah	1,640 students	22-23 Apr 2025
8	Al Buraimi	1,270 students	28–29 Apr 2025

Recommendations:

- 1- Continue annual participation in major exhibitions at the local and international levels.
- 2- Expand the scope of the activities at forums by providing practical technical presentations.

GCET Sponsors Unique "Education" Radio Show on Radio Muscat

Mr. Al Hussain Al Mossawi Head of MPRO

The Global College of Engineering and Technology partnered with Afkar Media to support and sponsor the radio program Education, the first program of its kind dedicated exclusively to educational topics on Muscat Radio.

Running over five months from August to December 2024, the show gave listeners meaningful insights and lively discussions



about higher education and learning in Oman. As the main sponsor, GCET was proud to help bring this unique initiative to life, showing our commitment to engaging with the community and promoting knowledge through fresh, innovative platforms.

Through this collaboration, GCET further strengthened its position as a higher education institution in



The Education program featured interviews with experts, discussions on emerging trends in education highlighting student achievements and academic innovations from the college. Thanks to GCET's involvement, the program delivered content that was both relevant and impactful, sparking interest and offering a vivid look into the dynamic world of higher education.

GCET Strengthens Global Academic Ties with New MoU

In a significant step toward enhancing international academic collaboration and driving excellence in higher education, the Global College of Engineering and Technology (GCET) has signed ten new Memoranda of Understanding (MoUs) from October 2024 to June 2025. This initiative reflects the college's ongoing commitment to sharing the best global practices, fostering innovation, and supporting the strategic goals of Oman Vision 2040. GCET aims to open new avenues for academic growth, research, and development across various disciplines through this partnership.

Name of Institution	Purpose of the MoU	Date Signed
Afkar Media	To support and sponsor the radio program Education, the first program of its kind dedicated exclusively to educational topics on Muscat Radio	August 2024
University of the West of England (Formula Student Society)	To establish a collaborative partnership between GCET and UWE for joint activities in the Formula Student Society, including shared resources, training, project supervision, research, student exchanges, and promotional initiatives to enhance learning and professional development.	
Knowledge Grid Academy (KGA)	Exploring and promoting educational opportunities and hands-on experiences for their mutual benefit	

Name of Institution	Purpose of the MoU	Date Signed
WAKUD LLC	Facilitate Industry - College Interaction for technical advancement, to develop academic and industrial relationship and support collaborative research opportunities and knowledge transfer opportunities for the mutual benefit of both parties	October 2024
Independent Studies of Science and Technology (IST)	Exploring areas of co-operation for the mutual benefits of the Institu- tions. The areas that will be exam- ined are Undergraduate and Post- graduate programs, Study or Semester Abroad Programs, Semi- nars towards specific Industries, open Life-Long Learning Seminars.	January 2025
Ministry of Commerce and Industry	This includes the launch of the 'Itqan' programme which aimed to organize an intensive training programme offering exceptional opportunities for students in various industrial fields, exchange of expertise, knowledge, and data, enhancing students' skills and readiness for the job market, and supporting them to align with the latest advancements in the industrial sector.	January 2025
Gulf College	Benchmarking of the two academic programs: Business Computing at GCET and Business Information System at Gulf College for the general purpose, and willingness, of exploring and promoting educational opportunities, research opportunities and knowledge transfer opportunities for the mutual benefit of both parties.	January 2025

Name of Institution	Purpose of the MoU	Date Signed
Curtin University	To strengthen international academic collaboration and support Oman Vision 2040 by promoting joint academic programs, research, and student-faculty exchanges. The partnership aims to enhance education quality, foster innovation in fields like energy, sustainability, and mining, and contribute to the development of higher education in Oman and beyond.	April 2025
Gulf College	This collaboration will focus on Academic and Non-academic activities, benchmarking exercises, and other related initiatives in line with Quality Assurance general practices and experiences.	May 2025
Siraj Education Endowment Foundation	To enhance collaboration in education and innovation, this agreement aims to support GCET's students, particularly those with disabilities, orphans, and job seekers through funding, training, and joint initiatives with the Siraj Education Endorsement Foundation. It focuses on academic and vocational empowerment, research and innovation promotion, and building entrepreneurial capabilities to support Oman's development goals.	June 2025

With the recent addition of ten new academic partnerships—bringing the total to forty-four since 2021—GCET is steadily expanding its global network and reinforcing its commitment to providing high-quality, internationally aligned education. The college offers a wide range of undergraduate and postgraduate programs across diverse fields, including Engineering, Computing, Urban Planning, Cybersecurity, Environmental Management, and Technology.

GCET remains deeply focused on fostering innovation, academic excellence, and active community involvement. By preparing students with the skills, knowledge, and mindset needed to succeed in today's rapidly evolving job market, the college continues to support national development and contribute meaningfully to the strategic goals outlined in Oman Vision 2040.

Signing of Memorandum of Understanding (MoU)





Ms. Saba Mohammad Jayyusi
Technical Demonstrator

EEE Department Explores Cube Satellite Opportunities

The Electrical and Electronic Engineering (EEE) Department at GCET initiated a Cube Satellite development roadmap. This achievement was formalised during the 5th External Advisory Board (EAB) meeting on 19th December 2024, where faculty



Dr. Ahmad HosseiniHead of Academic
Department of FS



members and external experts aligned on a shared vision for integrating satellite technology into the academic and research agenda. Dr. Rehan Mahmood, a leading satellite engineer from the National Center of GIS and Space Applications (Pakistan), presented a comprehensive framework design and implement GCET's first CubeSat. The project will engage Electronics and Telecommunication Engineering (ETE) students in a two-year journey from concept to launch, embedding them in real-world aerospace challenges and hands-on innovation.

During these discussions, the team also looked at ways to work with local industry leaders such as Omantel, imagining versatile CubeSat payloads that could support agriculture, communication, and scientific data services.

Dr. Javeed Hussain, Head of Department, shared his enthusiasm about the project and reaffirmed the department's dedication to exploring new technological directions that enhance student learning and meet future market demands.

This initiative is an exciting step forward in bringing advanced aerospace applications into the classroom, helping prepare EEE students for impactful careers in some of the fastest-growing areas of technology.

GCET Joins Advance HE: Unlocking New Horizons in Higher Education



We are proud to announce that the Global College of Engineering and Technology has officially joined Advance HE. This globally recognised UK-based organisation supports excellence in teaching and leadership in higher education. This prestigious affiliation opens access to an extensive array of resources, including profession

al development toolkits, webinars, leadership frameworks, global teaching and learning networks, and case studies tailored to the needs of modern academic professionals.

Since joining, GCET has hosted an introductory session with Mr. Kristian Rumble, Head of Partner

ships (MENA) at Advance HE, and participated in the MENA regional workshop on the Framework for Leading in Higher Education. These events have significantly enhanced our academic community's understanding of how to engage with Advance HE resources and apply them to institutional and individual growth.

As part of this membership, GCET

staff can now pursue Fellowship recognition through Advance HE in categories ranging from Associate (AFHEA) to Principal Fellow (PFHEA).

This directly complements GCET's internal Postgraduate Certificate in Learning, Teaching and Higher Education (PG Cert. LTHE) programme, which is aligned with the UK Professional Standards

Framework (UKPSF) and provides a structured pathway to achieving Fellowship status.

Dr Ahmad Hosseini, Head of the Academic Department of Foundation Studies, serves as the primary point of contact for the partnership, and also is the Programme Leader of PG Cert LTHE. Staff are encouraged to contact him for support in beginning their Fellowship journey.



Dr. Amna Al SaadiHead of Academic Department
of UPEM and Associate Professor

The Department of Urban Planning and Environmental Management (UPEM) at GCET participated in Oman Sustainability Week 2025, highlighting the college's strong academic presence and commitment to sustainability through student-led projects and faculty engagement.

Oman Sustainability Week is a national platform connecting academia, industry, and government in a joint effort to advance sustainability goals. For GCET, it was a unique opportunity to bridge classroom knowledge with real-world impact and to align student innovation with Oman Vision 2040.

UPEM's booth featured interdisciplinary projects from architecture, urban planning, environmental management, and renewable energy. "Solar Thermal Cooling," STC, supervised by Dr. Eng. Issa Mahmoud with his outstanding

Oman Sustainability Week

Basma Al-Ruwaidhi. Israa Al Sawafi, and Mohammed Al Shihhi. A 3-D model presented at the event represented a villa, and on its roof, evacuated U-tube solar thermal collectors were installed to supply a thermally driven cooling machine installed in the ground with the required heat for its operation. STC represents a sustainable solution for air conditioning in Oman instead of the conventional ACs and electrically driven cooling, which consumes vast amounts of electricity and, consequently, has a serious carbon footprint.

Dr. Amal Balila and Ms. Rayan Babiker supervised pioneering design solutions showcased by Architecture Technology and Design students. Notable projects included Cooling **Strategies** through Windcatchers for Omani Architecture Zakariva bv Al-Mukhaini, reviving traditional passive cooling techniques. The second project was Sustainable Lighting Strategies: Dynamic Roof Glass Technology for Daylight Tracking (Skyline Technology) by Maryam Al Shaibi, exploring smart daylight systems to reduce



Dr. Issa Mahmoud Associate Professor

energy consumption. Innovative Façade Solution by Zakariya Al-Mukhaini and Amira Al Shehhi was the third project integrating energy efficiency with aesthetics for future-ready buildings.

In Urban and Regional Planning, projects were supervised by Dr. Amna Al Saadi, Dr. Eman Nasr, and Mrs. Yasmeen Al Masri. Amani Al Meqbali explored thermal comfort and microclimate in residential neighborhoods. Aisha Al Shihi assessed the sustainable neighborhood effect, examining how urban form influences environmental and social well-being. Under Mrs. Yasmeen's supervision, Level-3 students led awareness campaigns promoting active and zero-energy transport modes, encouraging shifts in behavior from private vehicle use toward more sustainable mobility.

As part of the Environmental Management and Practices

COLLEGE NEWS

Programme, and under the guidance of Mrs. Sazya Firdaus, Arwa Al Dhaani and Al Zahraa Al Kalbani worked on sustainability and food waste management.

Their project tackled one of the region's most urgent environmental challenges with practical strategies that focused on benefiting the community.

Beyond student exhibits, the academic team actively networked with industry professionals and government representatives, exploring collaborative pathways in applied research and innovation. Dr. Amna Al Saadi noted, "Knowledge only fulfills its purpose when it becomes a tool for change."

The department welcomes future cooperation through research partnerships, training, and startup incubation aligned with national goals. GCET remains committed to empowering its students to co-create solutions for a smarter, more sustainable Oman.



Cooling Strategies through Windcatchers

Sustainable Lighting Strategies: Dynamic Roof Glass Technology

Solar Thermal Cooling



Innovative Façade Solution



sustainable mobility sustainable neighborhood effect





Dr. Janaki Sivakumar Associate Professor

The Global College of Engineering and Technology (GCET) continues to use its power to drive technological advancement through cybersecurity and innovative development

GCET has fully embraced digital era principles. Our campus now operates as a collaborative innovation center, which combines practical learning experiences through the combined efforts of student-led clubs, faculty leadership, and partner organizations. The Student Chapter of the British Computer Society (BCS) serves as a platform to study real-world problems and make connections with both students and experts in the field.

The Smart Devices Poster Presentation Competition took place as a



Mrs. Aparna Agarwal Assistant Professor

Empowering the Future of Tech: GCET's Trailblazing Journey in Cybersecurity and Innovation

joint initiative with BCS to display students' concepts about artificial intelligence, together with IoT and smart systems. Each poster displayed both innovative ideas and extensive research with outstanding visual and effective communication skills of the students.

Strengthening Cybersecurity with EC-Council

GCET's strategic alliance with EC-Council is the worldwide cybersecurity certification leader, and students now have access to new educational opportunities. The CSCT department implemented multiple essential initiatives throughout the year.

- Webinar on Careers in Cybersecurity: The 12 March 2025 webinar about cybersecurity careers was presented by Mr. Binay Roy, who provided essential information about the growing cybersecurity field as well as career paths and certifications that include CEH, CHFI, and CND.
- Workshop on OSINT: The hands-on OSINT workshop (7 April 2025) was led by Mr. Michael

Vien, who trained students on ethical data collection using open-source information sources.

Students gained practical experience with social media forensic analysis and data breach examination during the workshop, which proved to be an eye-opening experience.

- Authorized EC-Council Exam Center: The authorized EC-Council Exam Center status at GCET enables students to take their examinations on campus to obtain worldwide certifications.
- Campus Visit by EC-Council Regional Director: The visit from the EC-Council Regional Director on 22 April 2025 show-cased GCET's increasing impact on cybersecurity education and strengthened our mutual commitment to academic excellence.

The year's accomplishments represent GCET advancing its position as a national computing and cybersecurity education leader through the BCS chapter's engagement initiatives and EC-Council partnership.

Let's continue to learn, lead, and innovate—together.

Fostering Digital Pedagogy through AI Integration (2024–25)

Throughout the academic year 2024–25, the Department of Computer Science and Creative Technologies(CSCT) actively promoted the use of AI-enabled educational tools as part of its digital transformation and pedagogical innovation strategy. Faculty members adopted a wide range of platforms, spanning from quiz generators and presentation enhancers to research support tools, integrated thoughtfully into course delivery across various modules.

These tools were used not only to enhance engagement and feedback in class but also to empower students with the digital competencies increasingly expected in both academic and professional domains.

Semester 1: Enhancing
Engagement and Knowledge
Reinforcement

The first semester saw the integration of eleven distinct AI-powered platforms across foundational and

Semester 1: Enhancing Engagement and Knowledge Reinforcement

The first semester saw the integration of eleven distinct AI-powered platforms across foundational and advanced computing modules. Tools such as Quizizz, Mentimeter, Kahoot, and AhaSlides were widely adopted to support active learning and formative assessment. Faculty used these tools to create gamified quizzes, real-time polls, and dynamic slides that allowed for immediate student interaction and feedback.

SciSpace emerged as a significant particularly addition, research-heavy modules like IDGP and Cybersecurity Futures, where analyzed scholarly students articles with AI assistance, Gamma AI and ClassroomScreen added depth to project-based modules and interactive classrooms by simplifying visual communication and collaborative learning. The faculty also leveraged ChatGPT and Canva AI to generate content ideas, discussion prompts, and infographics, streamlining their preparation and making materials more visually compelling.

The overall response to these tools was positive. Students expressed increased attentiveness during sessions and appeared more confident in responding through anonymous digital platforms. Although structured feedback was limited, instructors reported noticeable improvement in student engagement and interaction, especially in traditionally modules that required intensive conceptual delivery.

Semester 2: Scaling Impact with Research and Presentation Tools

Building on the successful integration from the first semester, the department expanded its use of AI tools into more specialized and project-based modules during Semester 2. A total of nine tools were incorporated, with a strong emphasis on autonomous learning and real-world applications.

Mentimeter and Quizizz continued to serve as interactive assessment tools, while SciSpace was further adopted to help students interpret technical documents and academic literature. The use of Gamma AI and Canva AI in coursework and presentations allowed students to focus on content development while benefiting from AI-powered visual enhancements. Classroom-Screen helped in organizing collaborative tasks and visual classroom cues, adding structure to in-class activities.

A key highlight in this semester was the increased adoption of AI tools by students themselves. Many began using platforms like SciSpace and Canva independently assignments their self-study. ChatGPT was also explored under faculty supervision for drafting reflective reports and generating ideas, introducing students to responsible use of generative ΑI in academic contexts.

Reflections on Pedagogical Impact

The integration of AI tools into the teaching-learning process has significantly transformed classroom dynamics. Faculty experienced greater control over class

room interaction, and improved pacing of lesson delivery provided by the tools. Students, in turn, responded with enthusiasm, engaging more actively and developing a deeper understanding of complex concepts through visual, interactive, and formative experiences.

The shift from passive reception to active participation was particularly noticeable in programming, cybersecurity, and interdisciplinary modules. AI tools not only reduced monotony but also helped accommodate varied learning styles through visual aids, gamification, and interactive questioning. Furthermore, by empowering students with tools that are also used in industry and research environments, the department contributed to skill development aligned with real-world expectations.

Strategic Direction and Future Initiatives

Recognizing the value of these technological interventions, the department plans to do formal surveys, and reflective feedback from students will be collected to better assess tool effectiveness and user experience. In addition, training sessions for faculty will be arranged to explore advanced AI teaching tools, ensuring ethical, inclusive, and pedagogically sound integration.

As Oman continues its journey toward a knowledge-based economy, the integration of AI in academia represents not only a pedagogical choice but a strategic alignment with national digital transformation goals.



Dr. Suad Al KindiDirector of Research & Innovation
Associate Professor

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

GCET Go Green Solar Power Station Enters Second Phase with Advanced Weather Monitoring System



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).

Equipped with a comprehensive suite of indoor and outdoor sensors, the weather station collects real-time environmental data, including temperature, humidity, wind speed, and solar radiation. This data is transmitted to a dedicated web-based platform, where it is displayed through interactive charts and graphs for clear and accessible analysis.

This infrastructure upgrade complements the existing 10.8 kW solar power system, led by Dr. Issa Mahmoud, which has already



generated over 30 megawatt-hours (MWh) of clean energy and reduced carbon emissions by more than 14 tons, significantly contributing to environmental sustainability.

The real-time environmental data supports multiple ongoing research initiatives at GCET, enriching academic inquiry and offering valuable learning opportunities for both students and faculty. Moreover, the data is available for sharing with external researchers and organizations upon request, encouraging collaboration and advancing scientific knowledge beyond the institution.

GCET Achieves Recognition for Excellence in Research and Innovation at GHEDEX 2025

Dr. Suad Al Kindi

The Global College of Engineering and Technology (GCET) has been honored with the Best University Research Project Award at the Global Higher Education Exhibition (GHEDEX) 2025 for its outstanding project, "Healthy Air Wide-Around with Network Assessment (HAWANA)".Led by Dr. Suad Al-Kindi, Director of the Research and Innovation Office (RIO), as Principal Investigator,

and Dr. Nemat El-Hassan, Associate Professor in the Department of Electrical and Electronics Engineering (EEE), as Co-Principal Investigator, HAWANA received OMR 20,000 in funding from the Block Funding Program (BFP), supported by the Ministry of Higher Education, Research, and Innovation (MoHERI). The project is designed to generate novel insights through the collection of

real-time environmental data and robust statistical analysis, closely aligned with World Health Organization (WHO) guidelines. It investigates personal behaviours, daily activities, and levels of exposure to air pollutants among residents in Oman. The study's anticipated outcomes are expected to significantly contribute to reducing healthcare-related economic burdens and improving public

COLLEGE NEWS

health outcomes. HAWANA is a nationally significant initiative, conducted in collaboration with the University of Technology and Applied Sciences (UTAS), and officially endorsed by the Environment Authority (EA). Since its inception, the project has engaged over 80 voluntary contributors, including 15 Final Year Project (FYP) students from GCET and These students have conducted field studies on various pollutants and locations, starting from September 2023 onward. To raise public awareness, the project team has conducted outreach



Mr. Waleed Mohammed Al Maawali

Manager of Incubation & Innovation Centre and Assistant Professor

Talib, a promising student-led startup company, has emerged as a shining example of innovation and determination, making its mark in several high-profile competitions across Oman. Born out of the entrepreneurial spirit nurtured at the Global College of Engineering and Technology (GCET), Talib has successfully represented college at prestigious platforms such as the GHEDEX, Sultan Qaboos University (SQU) Scientific Festival, and the Middle East College (MEC) Visionary Ventures Challenge.

The company, founded by a group of forward-thinking students, was

events at Sultan Qaboos University, UTAS-Muscat, and the Oman Science Festival 2024. These sessions highlighted the project's objectives, scientific background, key findings, and recommendations concerning personal exposure to air pollutants, behavioural change, and mitigation measures. Internationally, HAWANA has also gained recognition. Dr. Suad Al-Kindi presented a research paper at the 10th World Congress on New Technologies (New-Tech'24) in Barcelona, Spain (August 25-27, 2024), which has been published in the conference

proceedings. Additionally, one of the participating FYP students represented the project at the First International Student Conference: "Empowering Youth – Future Landscape" held at the German University of Technology in Oman. The HAWANA project exemplifies GCET's strategic emphasis on applied research that addresses national priorities and advances the Sustainable Development Goals (SDGs).



Talib startup company as a module of success story in various Competitions (Ghedex, SQU, MEC)

incubated at GCET's Innovation and Incubation Center (IIC). With a vision to make the life easier for higher-education students, Talib quickly gained traction for its unique approach and strong technical foundation. Its participation in GHEDEX 2024 was a breakthrough moment, where the team showcased their project to a national audience, attracting attention from industry leaders, investors, and academic peers.

Following its success at GHEDEX, Talib continued its winning streak at SQU's Science Festival, where it was awarded the best project among all participants in the event. The judges commended the startup for its clarity of purpose, scalability, and the strong business model backing its innovative concept.

The team's appearance at the MEC Visionary Ventures Challenge further validated Talib's growth and maturity as a venture. Competing against startups from various universities and colleges, Talib impressed the jury with its refined pitch, market readiness, and promising financial forecasts.

The startup received potential collaborators who expressed



interest in supporting the project's next phase.

Talib's journey is more than just a sequence of competition wins—it is a testament to what student entrepreneurs can achieve when supported by the right ecosystem. GCET's IIC has played a pivotal role in mentoring the team, providing them with technical support, networking opportunities, and access to resources essential for startup development.

As Talib continues to evolve, it serves as a powerful inspiration for other students at GCET and beyond, proving that with passion, persistence, and a clear vision, student-led ventures can contribute meaningfully to Oman's innovation landscape. The success of Talib underscores the importance of fostering entrepreneurship within academic institutions, and it positions GCET as a rising hub for startup excellence in the Sultanate.

Research and Innovation Benchmarking with ICEM, MUC &BUC

Dr. Suad Al Kindi

Director of Research & Innovation Associate Professor

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 the college level. The two institutes have agreed on promoting each other's 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 strengthens GCET's reputation, aiding in accreditation efforts and increasing visibility among stakeholders.



Military Technical College Visit to GCET

Mr. Waleed Mohammed Al Maawali

Manager of Incubation & Innovation Centre and Assistant Professor

In an initiative to enhance collaboration relations and partnership activities driven by innovation, the Technology Military College (MTC) has carried out an official visit to the Global College of Engineering and Technology (GCET). One of the many objectives of this visit was to appreciate the scope of the Innovation and Incubation Center (IIC) in supporting student projects, building entrepreneurial ecosystems, and commercialization of research.

The MTC delegation, led by Captain Ahmed Jadad, met with the Research and Innovation Office (RIO) manager as well as the Manager of IIC. The visit began with a briefing on the center's mission, operational framework, and key achievements led by the Manager of IIC. It was notable how the center functions on training and mentoring students, researchers, and entrepreneurs on the valuable steps in idea transformation to marketable products through adequate mentorship, technical

support, and startup incubation, which guides participants from early phases to successful enterprise launch.

That tour showed the delegation the research labs in GCET, and the prototype working models, as well as the research activities that they were engaged in. Furthermore, the MTC delegation has engaged with Final Year Project students and the most recent technologies that the students have or are in the process of developing as part of their graduation requirements. Also of great

interest to the MTC team was the fact that GCET's approach to dealing with problems is interdisciplinary, combining engineering, artificial intelligence, and sustainability with active problem-solving techniques.



Both institutions recognized the importance of building a national innovation ecosystem aligned with Oman's Vision 2040, and the visit served as a platform for exploring synergies between military and



civilian academic institutions. The exchange of ideas and practices is expected to pave the way for future initiatives that empower Omani youth, support knowledge transfer, and drive technological advancement.



GCET continues the mission to remain a leading developer of the region's next generation of leaders and innovators.

Pitch Battle

Mr. Waleed Mohammed Al Maawali

Manager of Incubation & Innovation Centre and Assistant Professor

The Scientific Innovation Leaders Club (SILC) recently organized an exciting Pitch Battle event that presented the entrepreneurial zeal and innovative capabilities of its students. Taking place at the reception hall, the competition offered a platform for impact-driven entrepreneurs to pitch their innovative ideas in front of a panel of notable judges and an audience. The contestants delivered articulate, competent pitches, not only highlighting their innovation but also demonstrating their ability to address real problems with innovative solutions. The exercise highlighted GCET's focus on developing an organizational culture that is innovative, critical thinking, and practical problem-solving among its students.

Participants delivered compelling three-minute pitches, showcasing solutions across diverse sectors, with a noticeable surge of interest in biotechnology. This growing enthusiasm reflects the strong potential for biotech startups at GCET, supported by the institution's academic strengths in engineering and science, as well as its commitment to applied research and innovation. Projects addressing logistics, fintech, cybersecurity, educational technology, and robotics, as well as biotech solutions, drew particular attention, indicating that GCET could become a key hub for startup innovation in Oman.

Out of the 12 startups, only 3 had to be selected to win. The first place was awarded to Elyone Drones, a startup working on developing drone solutions to detect promising locations for drilling on oil rigs. The second place was awarded to Plume+, a biotechnology startup working on extracting biodiesel from chicken feathers. The third place was awarded to PureEnergy, a pioneer startup revolutionising batteries by producing electricity via biological reactions, unlike traditional batteries that use chemical reactions to generate electrons.

The Pitch Battle was not just a competition but also a platform for networking, gathering students, teachers, industry professionals, and possible investors. The mingling of brains here facilitated intelligent conversation regarding entrepreneurship, technology, and the future of various industries.

GCET's dedication to entrepreneurial talent development is echoed through initiatives like the Pitch Battle, which allow students to mold their ideas into viable businesses.



Pitch Battle 1st Place



Dr. Khoula Said Al HarthyHead of Department of
Computer Science and
Creative Technologies (CSCT)



My Specialization, My Career: A One-Day

Career Development Event for MoE students

The CSCT Department proudly hosted students from the Ministry of Education for the "My Specialization, My Career" event, held on 24 February 2025. This thoughtfully curated program brought together 60 outstanding students from three different governorates, offering them a rich and engaging experience designed to bridge academic learning with future career pathways.

This initiative highlights CSCT's progressive approach to education, equipping students not only with strong technical expertise but also with the ability to think critically and reflectively. By fostering these skills, CSCT empowers students to become thoughtful, responsible leaders in their fields—capable of shaping, rather than merely adapting to, the rapidly evolving world of technology.'

During the event, the Computer Science and Creative Technologies Department led interactive workshops and educational games, introducing students to cutting-edge topics such as the Internet of Things (IoT), artificial intelligence (AI), and digital forensics. These sessions were specifically crafted to provide hands-on learning, allowing students to develop both technical skills and

analytical thinking while exploring how these technologies are transforming industries worldwide.

The Mechanical Engineering Department offered students an exciting look into essential innovations, including thermal imaging, radar applications, 3D printing, and drone technology. The aim was to provide participants not just a glimpse of advanced tools, but also a deeper appreciation of the engineering principles and craftsmanship that underpin modern mechanical solutions.

Additionally, the **Department of UPEM** engaged students with topics centered on sustainability, encouraging them to think creatively and responsibly about the future. With a focus on environmental management, smart urban planning, clean energy solutions, and architectural innovation, this segment inspired students to imagine — and help build — sustainable cities that balance technological progress with environmental stewardship. Finally, the EE department allowed the students to work hands-on with robots and IoT devices, where students interacted with motors, sensors, and connections. Moreover, the students were

able to assemble smart cars.



The "My Specialization, My Career" event was far more than a mere collection of workshops; it was a comprehensive, immersive opportunity for students to engage meaningfully with the future of their professions, while reflecting on the values and responsibilities that should guide meaningful progress.

By the end of the day, students left not only with enhanced technical abilities but also with a sharpened sense of their role in shaping industries and communities in a thoughtful, ethical, and sustainable manner. The Department is honored to have been part of this educational initiative and looks forward to continuing to support and inspire the next generation of innovators and leaders.



Mrs. Aparna Agarwal Assistant Professor

Unlocking Industry Insights: CSCT Guest Lecture Series

To enhance academic learning and promote professional awareness, the Department of Computer Science and Creative Technologies(CSCT) organized a series of guest lectures during the academic year 2024–25. These sessions, across both held semesters. brought in domain experts from academia and industry to engage students on real-world topics aligned with their course modules. The initiative enriched classroom learning with practical insights, encouraged critical thinking, and national supported priorities under Oman Vision 2040.

Semester 1 Highlights (October 2024 – January 2025)

The first semester featured five impactful guest lectures across core computing and legal modules.)



The series began with Dr. Anjum Zameer Bhatt from Middle East College, who delivered an insightful session on Digital Forensics as part of the Forensic Computing Practice module. Hosted by Mr. Mudassar Hussain on 29th October 2024, the talk explored investigative techniques and digital evidence handling in cybercrime scenarios. Students gained practical knowledge of tools and case studies used by forensic analysts.

Following that, Dr. Vishal Dattana from the Oman College of Management and Technology shared his expertise on Network Security and Risk on October 30, 2024. This session, conducted for the Security Management in Practice module under the guidance of Mr. Muzammil Hussain, and addressed current threats to enterprise networks and strategies to mitigate organizational risks.





In early November, Dr. Faiza, a senior lecturer from University of the West of England (UWE), led a detailed session on Information Risk Management. The lecture was coordinated by Dr. Khoula Al Harthy and focused on risk frameworks, threat assessment, and digital compliance in enterprise environments.

The fourth lecture in the series, titled "Safeguarding Integrity in a Data-Driven World," was held on October 28, 2024, and delivered by Dr. Shahd Alqam from Code Academy. The lecture explored pressing ethical dilemmas in computing, emphasizing the critical importance of transparency in AI systems and the evolving responsibilities of technology professionals in today's data-driven landscape. The session was thoughtfully hosted by Ms. Hanin Alqam.

The semester concluded with a legal perspective on cybercrime delivered by Ms. Lubna Al Hinai from Dr. Asad Al Hadrami Law Firm on November 26, 2024. Conducted for the Law Experts and Justice module, the session explored Oman's IT Crime Act and real case examples. It was organized by Ms. Janaki Sivakumar and sparked deep student interest in legal-tech interfaces.

Semester 2 Highlights (February 2025 – June 2025)

Building on the success of Semester 1, the second semester brought a sharper focus on cybersecurity, machine learning, and smart technologies.

On March 23, 2025, Eng. Sara Al Kindi, Head of Cyber Defence at PDO, launched the series with a session on IoT Security for the Cyber Security Futures module. Dr. Khoula Al Harthy, host of the lecture, emphasized vulnerabilities in interconnected devices and the need for robust IoT architecture. This was followed by a second session under the same module on March 26, where Dr. Anjum Zameer returned to discuss Machine Learning in Cybersecurity. Organized by Dr. Khoula and Mudassar, the lecture explained how predictive analytics can identify and prevent advanced persistent threats.



On March 24, Dr. Younis Al Anqoudi, IT Head at Transom, presented real-world applications of Machine Learning and Predictive Analytics. This session, coordinated by Dr. Janaki and Dr. Khoula, allowed students to understand the deployment of ML models in aviation and logistics.

A technically rich session on Cybersecurity in Industrial Control Systems was delivered on 23rd April by Eng. Hamed Al Arimi from Nama Group. Hosted by Dr. Khoula Al Harthy for the Critical Systems Security module, this talk highlighted the role of cybersecurity in critical infrastructure like



Mrs. Mohsina MirzaAssistant Lecturer / Student Support

GEETECH Student Activities EEE Department

The GEETECH student group from the Electrical and Electronics Engineering (EEE) Department of Global College of Engineering and Technology (GCET) plays a crucial role in fostering innovation, leadership, and community engagement among students. Throughout the 2024-2025 academic year, GEETECH organized and participated in a variety of technical competitions, cultural celebrations, workshops, and outreach events that blend engineering skills with creativity and social impact. Below is a detailed overview of the key GEETECH activities that exemplify the group's commitment to

power and water networks. The semester concluded with an engaging lecture on Cybersecurity in Mobile Applications on 30th April by Mr. Mohammed Yasir Khan from Global Computer Services – OQ8. Dr. Muzammil Hussain coordinated the session, where students explored threat modeling, secure app development, and incident response in mobile ecosystems.

Reflections and Impact

Throughout the academic year, these expert-led guest lectures were delivered across undergradu

hands-on learning, interdisciplinary collaboration, and the promotion of Omani heritage alongside modern technology.

 TechConnect 3.0 – Sumo Robot Competition
 Date: 24th December 2024

Students showcased their robotics and electronics prowess by designing autonomous sumo robots within strict size and weight constraints (≤3 kg, ≤20 cm diameter). The competition consisted of two rounds: pushing objects out of a ring and direct robot vs. robot matches. The event emphasized hardware integration, programming, robotics principles, and sportsmanship.

Winners:

- First Place: Tasneem Al Farsi, Jamila Ramez, Malak Al Busaidi, Maram Al Battashi
- Second Place: Salim Al Kalbani, Malik Al Kalbani, Abdullah Al Abri, Ahmed Al Mamari, Moatasem Al Farsi



ate and postgraduate programs. These sessions not only deepenedstudents' understanding of course content but also provided them with exposure to current industry practices, regulatory frameworks, and future career opportunities. The Department extends sincere gratitude to all guest speakers, faculty coordinators, and organizing staff for their invaluable contributions. continued commitment to academic excellence and industry integration, we look forward to expanding this initiative in the



upcoming academic year.

2. TechConnect 3.0 – Smart Date Machine Competition

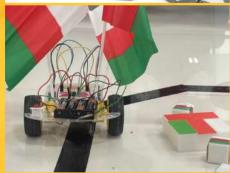
Date: 24th December 2024 Mechatronics students developed automated systems for filling dates with various fillings using the VEX EXP robotics kit. The competition focused on mechanielectrical, and software consolidation. Students demonstrated their designs to a panel of judges and won awards for best software and best hardware implementation. This project strengthened practical skills in automation and industry-relevant lem-solving.



3. Gulf Engineer's Day Date: 30th April 2025

This campus-wide event celebrated engineers' contributions with interactive booths representing Robotics & Automation, Instrumentation & Control, Electronics & Communication, and Mechani-Engineering. Highlights included a historical exhibition comparing classical and modern tools, a programming competition, and fun interactive stations such as pottery and vintage photo booths. The event fostered community, interdisciplinary learning, and pride in engineering.





4. Oman National Day54 CelebrationDate: November 2024

GEETECH honored Oman's rich cultural heritage by blending tradition with technology during the National Day celebrations. Key highlights included:

- Needle painting spelling "GEETECH" using toothpicks and wool in Omani flag colors.
- A large floor map of Oman with an IR-sensored robot navigating the path while carrying the flag.
- Display of historical artefacts like vintage radios, landline phones, and pottery.
- A large printed Oman map showcasing future electrical component placements.
- AI-generated robotic figures dressed in traditional Omani clothing symbolize the fusion of culture and technology. Visitors received handouts, including candles and supplements, from the Oman Scientific Newspaper. The event was praised for creativity and effective cultural-technical integration.



5. GEETECH Freshers' Day 2024 Date: 12th November 2024

A welcoming event for new undergraduate and GFP students, designed to introduce them to academic and extracurricular opportunities. Features included:

- Welcome talks and experience sharing by the senior IEEE students.
- A discussion on alternative energy's industrial importance was led by student career counselor Mr. Suliman Al Balushi.
- Fun team-building games like Kahoot quizzes, drag racing, and tower tactics.
- Hands-on robotics workshop guided by GEETECH volunteers.
- Career counselling and membership registration booths by IEEE and IET.

The event created a friendly atmosphere that encouraged networking, learning, and early involvement in professional development.

The initiatives organized and supported by GEETECH reflect a deep commitment to holistic engieducation—seamlessly integrating technical rigor, culturappreciation, professional growth, and community engagement. These multifaceted activities empower students to cultivate practical skills, creativity, and leadership, while honoring Omani heritage and contributing to national development priorities. As a vibrant nexus of innovation and tradition, GEETECH continues to prepare students to become the visionary engineers responsible leaders of tomorrow.



Industry Collaboration Activities EEE Department GCET

Mrs. Mohsina Mirza

Assistant Lecturer / Student Support

The Department of Electrical and Electronics Engineering (EEE) of GCET plays a proactive role in strengthening industry-academia collaboration. Through technical visits. strategic meetings, student-centred workshops, and industrial project engagement, the department aims to provide its students with real-world exposure and hands-on experience. These collaborations serve as a cornerstone for bridging the gap between theoretical education and the demands of the industrial world. With Oman Vision 2040 highlighting innovation, sustainability, and youth empowerment, the EEE department's efforts align with national goals by equipping students with industry-relevant skills, boosting employability, and fostering innovation-driven learning.

 Visit by Mr. Abdull Latif Al Musalami – Advario Terminal LLC



As part of the department's ongoing partnership initiatives, the EEE Department was honored to host Mr. Abdull Latif Al Musalami, Technical Manager at Advario Terminal LLC in Sohar. His visit reflected a strong industry-academia relationship, where both institutions continue to support each other in advancing engineering education and workforce readiness. A special memento was presented to Mr. Al Musalami by

Dr. Sulaiman Al Hasani, symbolizing the appreciation for Advario's contribution to student engagement and training. The presence of Dr. Javeed Hussain, Head of Department, and Dr. Irfan Memon, Project Leader of the Electronics and Telecommunication Engineering (ETE) program, further emphasized the importance of collaborative industry ties in academic growth.

2. Strategic Collaboration Meeting with Yokogawa Oman Limited



In a strategic effort to explore academic-industry synergies, a delegation from GCET visited Yokogawa Oman Limited. Led by Mr. Suleiman Al Balushi and joined by Dr. Javeed Hussain and Dr. Irfan Memon, the meeting focused on creating a roadmap for sustained collaboration. Key areas discussed included offering internships to students for hands-on training in process control and industrial automation. In addition, Yokogawa showed interest in facilitating final-year and capstone projects that allow students to work on real-world industrial problems under professional guidance. A notable proposal was the donation of old instrumentation equipment to the college's labs to enhance practical learning. There was also discussion on granting access to industrial software, licensed enabling students to familiarize

themselves with advanced platforms used in the field. Furthermore, the EIDAAD program was considered as a collaborative space for developing high-impact, skill-based projects aligned with national priorities.

3. Workshop with Sohar Aluminium Company

Continuing its mission of technical excellence, GCET's EEE Department partnered with Sohar Aluminium to host a specialized on-campus workshop.



This session was designed to give students insights into cutting-edge manufacturing processes, with a specific focus on energy efficiency in heavy industries.

The workshop covered real-world engineering challenges and practical applications relevant to the Omani industrial sector. During the event, students engaged directly with engineers and HR personnel from Sohar Aluminium, learning about potential career paths, internship options, and industry expectations.

This interaction provided not only technical exposure but also motivation for students to apply their learning to meaningful and impactful industrial contexts.

4. Industrial Visit to Raha Oman Production Lines



On November 27, 2024, a highly educational industrial visit was organized to the Raha Oman production facility. Coordinated through GEETECH in collaboration with IEEE and IET student branches, the visit involved 29 students and 5 faculty members from the EEE Department. Raha Oman, a leading bedding and furniture manufacturer, offered opportunity students the witness various stages of production, including foam processing, spring manufacturing, and robotic assembly.

The experience offered a practical perspective on modern manufacturing technologies and industry operations. The integration of programmable logic controllers (PLCs), sensors, actuators, and robotic control systems demonstrated the real-world application of core EEE academic concepts. A special session with the factory owner, Mr. Sulaiman Al Hania, offered insights into the evolving role of engineering in Oman's industrial growth. The visit was also academically enriching-students in Instrumentation and Control related their observations to modules like Measurement and Instrumentation. Sensors Transducers. and Control Systems, while Automation and Robotics students linked their experience to modules in Mechatronics, Robotic Systems, and PLC Design. The success of this visit was made possible through the support of the Head of Department, Mr. Suleiman Al Balushi,

Student Support Head Mrs. Maryam Al Amri, and the Dean's office

The EEE Department's strong commitment to academic-induscollaboration remains a cornerstone of its mission to cultivate highly competent, industry-ready graduates. Through a range of initiatives—including workshops, guest lectures, industrial visits, and collaborative projects—the department ensures that gain both students rigorous academic grounding and essential practical experience. These initiatives create a holistic learning environment in which theoretical knowledge is continually reinforced through real-world engineering applications. The department remains steadfast in expanding such partnerships in alignment with Oman's national vision for industrial innovation and youth empowerment.

Ramadan Iftar Social Gathering

Mrs. Mohsina Mirza

Assistant Lecturer / Student Support

On the occasion of Ramadan, the Electrical and Electronics Engineering (EEE) Department hosted a special staff Iftar gathering on March 25, 2025. This heartfelt event brought faculty and staff together in a warm and spiritual atmosphere, nurturing a sense of unity and reinforcing the values of compassion, reflection, and community that the holy month embodies. Beyond sharing a meal, the gathering served as a meaningful opportunity to strengthen collegial bonds and express gratitude, reflecting the department's ongoing commitment to fostering an inclusive and supportive work environment.





Dr. Ahmad HosseiniHead of Academic
Department of FS

As the academic year concludes, the Department of Foundation Studies proudly presents a rich tapestry of achievements, ranging from staff development to ground-breaking programs and dynamic student events.

The FSD accommodated around 200 new students this Academic year in the General Foundation Programme (GFP) and the Postgraduate Qualifying Programme (PQP) in two cohorts. The Department also supports the undergraduate students in different capacities. The spectrum of activities in FSD does not end here, and we also support all GCET staff by offering the Postgraduate Certificate Programme of Learning and Teaching in Higher Education and Fellowship plans with HEA.

Staff Achievements and Professional Growth at FSD

The academic year saw remarkable growth in faculty qualifications, research contributions, and instructional innovation.

- Four staff are continuing their studies at PHD in Malaysia and Spain
- Two staff members are completing their MSc Scholarships in the UK and Australia
- One staff member is completing his MSc in Oman
- Two staff completed their PG Cert LTHE at UWE

Highlights of the Academic Year 2024–25:

The Academic Department of Foundation Studies

Congratulations on these academic achievements:

- **Dr Ahmad Hossieni** presented his research in the 8th National Congress of Buraimi University College and chaired a panel.
- **Dr Pooja Chhabra** completed her PhD in Education at Lincoln University College, Malaysia.
- **Dr Afsaneh Shokri** completed the PG Cert. LTHE at UWE with a Fellowship in Higher Education Academy (FHEA) and Ms Joanne James is graduating at the same.
- Mr Tassawar Kamran and Ms Greenal Borboz earned their second Master of Philosophy in Education from UCAM, Spain.
- Mr Tassawar Kamran, Ms Greenal Borboz, and Mr Jundy Lozano are completing their PhD in Education at UCAM, Spain.
- Mr Saif Al Raesi is graduating with the MEng in Renewable Energy at Muscat University.
- Ms Ghadeer Al Farsi is graduating with her MA in English Language from Birmingham University.
- Ms Johaina Bani Oraba is completing her MA in English Language from the University of Adelaide.
- **Dr Pooja Chhabra** and Ms Greenal Burboz presented their research papers at the GFP International Conference in Sohar University

These achievements, along with attendance at various workshops, conferences, and professional development courses, reflect the department's strong commitment to lifelong learning, teaching excellence, and academic leadership.

Third Cohort of the PG Cert LTHE Programme at GCET

The Postgraduate Programme of Learning and Teaching for Higher Education started its third run in February 2025. The Programme has been successfully launched for 5 years under the title PCAP and revised and restarted as LTHE in 2023. The GCET Academic staff who participate in this programme benefit from a wide range of theoretical and hands-on experience in teaching and learning methodology and approaches, along with actual class observations and feedback processes. "The actual peer learning that happens in LTHE enriches the experience of continuing development for all academic staff." Says Dr Ahmad Hosseini, the Programme Leader

Ten participants from all academic departments will complete their programme by January 2026. Dr. Nemat Elhassan and Dr. Eman Nassr, as the Critical Friends of the cohort, add their wealth of experience to the practice.

Like previous years, the LTE teaching team from UWE visited GCET for their class observation and practical sessions in April. They commended the improvements of the learning experience at GCET and the enthusiasm and commitment of the participants.

Official Launch of the Postgraduate Qualifying Program (PQP)

Mr. Tassawar Kamran
September 2024 marked the launch of GCET's Postgraduate Qualifying Program (PQP), designed to prepare students who would like to pursue their Master's

programmes. The first cohort completed the 20-week course with a 100% success rate. Key features of PQP included:

- Task-based IELTS instruction
- Research-integrated writing modules
- Personalised academic support via Moodle and the GCET Library The programme received high praise from the external examiner and successfully launched its second intake in April 2025.

GFP Club Events and Interdisciplinary Initiatives

Mr Panfilo Morandante and Dr Pooja Chhabra

The GFP Club orchestrated several high-impact events:

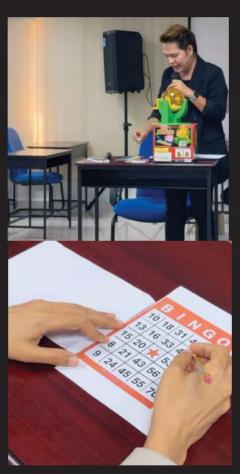
MathICTEng

One of the most significant highlights was the MathICTEng Activity, a collaborative event between the Mathematics, English, and Information Technology departments. Witnessing students seamlessly bridge concepts from these disciplines was incredibly rewarding. This event demonstrated the power of integrated learning, encouraging analytical thinking from Math, effective communication from English, and digital literacy from IT. As a mentor, I took pride in seeing our students apply classroom concepts in a creative and engaging context, reflecting their growth as well-rounded learners.



NUMERO Bingo

Another milestone was organising NUMERO Bingo, an activity that showcased how fun and learning can coexist. This event attracted a high level of participation and enthusiasm, particularly from our Math Whiz students. It provided a relaxed yet stimulating platform for learners to enhance their numerical fluency and strategic thinking. More importantly, it helped build a sense of community among students, nurturing collaboration and healthy competition.



Search for the Math Wizard – Season 2

Perhaps the most notable achievement was the Search for the Math Wizard Season 2, an interschool competition that saw participation from over 20 international and private schools. Guiding our students through this large-scale event was both a challenge and a source of pride. The sheer scale and success of the event are a testament to the collaborative

effort of our department and the strong mentoring culture we've cultivated. Watching our students rise to the occasion with confidence, skill, and resilience reminded me of the transformative impact of committed mentorship and effective planning.



The Fifth Inter-College Debate Competition

The GFP Club hosted its 5th Inter-College Debate in May, with participation from several higher educational institutions. Organised by the Foundation Studies Department, the event aimed to provide a platform for GFP students to practice public speaking

This year's topic, "Financial Education Should Be Part of the School Curriculum," prompted insightful discussions. Students addressed various aspects of financial literacy—budgeting, saving, and responsible spending—debating whether early education in finance is essential for future preparedness.

Participants displayed not only topic knowledge but also strong listening, response, and presentation skills. Twelve colleges participated, including first-timers Buraimi University College and the University of Buraimi, adding fresh perspectives.

Dr Ahmad Hosseini, Head of Foundation Department, presented tokens of appreciation to the judges and awards to the winners, followed by a group photo. E-certificates were sent to all participants and judges. The debate proved to be a valuable initiative for fostering student engagement and critical thinking.

Spell Bee Victory - Student Success Story

GCET won the first position in the Inter-College Spell Bee 10, organised by the Scientific College of Design. The GFP student, Usama Al Mandhari, showcased his spelling skills in this tight competition. The GFP Club actively prepares students for such events, helping build their confidence and communication abilities.

This achievement was supported by department members and volunteers. Professor Geoffrey Elliott, Dean of the College, awarded certificates to the winner and his mentor in recognition of their accomplishment.

Student Support Centre Highlights Officer:

Ms. Joanne James

This year, the FSD Support Centre expanded its peer learning initiatives with 45 Student Peer Teaching Assistants (SPTAs) supporting subjects like Math, IC3, and English. Guided by Ms. Joanne, regular meetings helped the team share strategies and build a strong support network.

A major highlight was the launch of the Revision Camp, offering flexible, subject-specific study sessions ahead of exams. The initiative received positive feedback and returned for semester two. Additionally, the Centre is developing a Moodle resource bank to provide 24/7 academic support to all GCET students.



Looking ahead, plans include the Support Centre Chat Circle, a weekly speaking group to boost confidence, and a student-run podcast titled What Colour Is Your Toothbrush? These initiatives aim to deepen student engagement and academic success.

GCET and BUC Benchmarking Meetings

The benchmarking initiative between the Department of Foundation Studies at GCET and Buraimi University College (BUC) continued this year. The GFP members of both institutions attended a synchronous meeting in May 2025, and the following actions were agreed upon:

- 1. Academic and Research Collaboration: The institutions will jointly organise and participate in research forums and conferences, with faculty and student involvement. Notably, Dr. Ahmad Hosseini contributed to the 8th national congress on AI in humanities at BUC, where he presented his research and chaired a panel. There will also be joint research consultancy projects aimed at benefiting local communities.
- 2. Student and Faculty Exchange Activities: Students from both institutions will be invited to participate in each other's activities. Two BUC students took part in the GCET debate, and reciprocal visits are planned. Faculty members will collaborate through the exchange of research publications and inter-library loans.
- 3. Assessment and Quality Enhancement: Exam moderation will be conducted collaboratively to improve assessment standards. Benchmarking exercises and quality assurance practices will be shared, including field visits and online communication.
- 4. Publication and Resource Sharing: There will be a continuous exchange of academic publications. Both institutions will also facilitate inter-library loan systems for shared access to resources.

FSD Looking Ahead

With a strong foundation of professional growth, student achievement, and academic innovation, the Academic Department of Foundation Studies remains committed to quality-driven education and preparing students for global success.

We are looking ahead to growth, and we aim to broaden academic offerings, introduce professional development and certification programs. Plans of the Department include expanding preparatory studies, offering continuing education and language skills training, launching online and hybrid courses, and strengthening compliance with national and international standards.



Mrs. Greenal Wilson Senior Lecturer (English)

Over the years, collaboration between GCET and Indian Schools has been strengthened. These schools are reciprocal to such alliances by inviting GCET personnel to be a part of their events.

Once, such an event was attended by the Dean at Indian School Darsait, which proudly hosted the esteemed 'Mon Avis' Inter-School Debate Competition for the Ambassador's Rolling Trophy on Thursday, 29 August 2024, under the aegis of the Board of Directors, Indian Schools, Sultanate of Oman.

Further possibilities of collaboration were discussed by the Dean, the Principal, and the Director of the Board of Directors, Mr. Vinoba M. P.

To carry this initiative with the support of the Dean, Deputy Dean for Academic Affairs and Resources, and management, it was decided to have Indian students on a campus visit. This came to fruition with various interactive activities, workshops, and competitions organized by CSCT, Mechanical Engineering and Electronics, and Electrical Departments on 1st May 2025 at GCET. Around 50 students attended this event with their teachers.

Indian Schools Outreach Initiative



Three teams participated in the CSCT competition, with Indian School Darsait securing the first and third place, while Indian School Al Wadi Al Kabir came in second.

With an introduction to Heat Distribution and Thermal Imaging Technology, a Drone Assembly Workshop, and a Presentation on Sustainable Energies, students were able to get a peek into the world of Mechanical Engineering. Having hands-on experience on real-world projects like staircase lighting and car turn signals, and introducing some basics of resistive circuits and their applications, the Electronics and Electrical department

The event concluded with the Dean's words of appreciation to the schools.

More outreach programmes have been planned in the future to connect with Indian Schools across Oman.



Exploring Learning Beyond the Classroom: UPEM Field Trips Summary



Mr. Marthud FaisalAssistant Professor

INTRODUCTION

Driven by its passion for experiential learning, the Department of Urban Planning and Environmental Management (UPEM) program organized a series of enriching field trips throughout the academic year 2024-2025. These excursions were designed to compleclassroom instruction, ment enhance students' academic understanding, and provide exposure to real-world applications in various disciplines, ultimately increasing students' readiness for professional futures. Students across different levels and programs actively participated, gaining valuable knowledge, industry insights, and hands-on experience that reinforced their academic learning.

SEMESTER 1 FIELD TRIPS: ENGAGING THE FOUNDATIONS OF APPLIED LEARNING

The first semester of the academic year featured a diverse set of field trips, each tailored to support early curriculum objectives and encourage foundational professional development. On October 27, 2024, UPEM Level 2 students

from the URP "Future Places" module, led by Mrs. Yasmin Al Masri, visited Al Amerat Park in Muscat to conduct a site analysis as part of their coursework. The purpose of the trip was to collect primary data, observe the site's physical and functional characteristics, and evaluate aspects such as accessibility, transport links, parkand emergency Students actively engaged in field observation, data collection, and photographic documentation to support their analysis. The trip enabled them to identify strengths, weaknesses, opportunities, and threats of the site, guiding them in formulating strategic and sustainable development proposals.



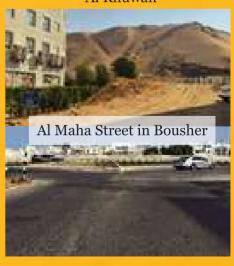
Al Amerat Park in Muscat

On 11 November 2024, Level 2 students from the URP program enrolled in the Achieving Design Quality module, participated in a field visit organized by Dr. Amal Balila. Divided into three groups, students visited different urban

streets across Muscat: Al Bahri Road in Mutrah, Souk Al Khuwair Street in Al Khuwair, and Al Maha Street in Bousher. The visit supported their final module assessment. where students conducted visual surveys, took photographs, and recorded field notes. These observations were used to generate urban maps and inform proposals for redesigned street layouts. The trip provided an experience for students to critically assess real-world streetscapes and apply urban design principles, enhancing both their academic understanding and practical skills in achieving design quality.



Souk Al Khuwair Street in Al Khuwair





Al Bahri Road in Mutrah

In a meaningful extension of the UPEM-ATD program's Studio I, a dynamic and insightful field trip to a residential building currently under construction at Al-Ansab Heights in Bushar was led by Mr. Marthud Faisal on Tuesday, 12th November 2024. The field trips aimed to connect academic learning with real-world practice, giving students direct exposure to construction methods, planning processes, and sustainable design. Students actively engaged in site visits and discussions, gaining practical insights and developing critical thinking skills that enhanced both their academic understanding and professional readiness.





Construction at Al-Ansab Heights in Bousher

SEMESTER 2 FIELD TRIPS: ADVANCING KNOWLEDGE THROUGH INDUSTRY AND INNOVATION

In the second semester, field trips focused more on advanced topics and professional immersion. On February 2025, Level 2 students from the Master Planning Studio module participated in a field visit to the PDO Residential Area in Ras Al Hamra, Muscat, organized by Dr. Eman Nasr. The purpose of the visit was to conduct site analysis essential for their module tasks. During the trip, students examined the site's physical and spatial characteristics, infrastructure, and layout. This direct engagement provided valuable insights into large-scale residential planning and deepened their understanding of contextual urban analysis.





PDO Residential Area in Ras Al Hamra,

On 2 March 2025, Level o URP students enrolled in the Foundation Year Project [EMP] module, led by Mrs. Rayan Babiker, visited Gubrah Park to conduct a site analysis. The trip introduced students to key aspects of observing and evaluating public spaces, allowing them to apply foundational planning concepts in a real-world context. Through direct engagement with the site, students gained hands-on experience in spatial assessment and built a practical understanding of urban environments, reinforcing the link between academic learning and professional practice.



Gubrah Park

On April 8, 2025, Level 3 ATD students enrolled in the Technological Innovation and Life Cycles module, led by Mrs. Rayan Babiker, visited Ras Al Hamra to analyze innovative building strategies in a real-world setting. The field trip allowed students to observe construction methods, material applications, and lifecycle considerations firsthand. This direct exposure supported their academic understanding of sustainable design and technological integration in architecture, enhancing their ability to evaluate and apply innovative solutions in future design projects.



Ras Al Hamra

As part of the URP and EM Field Study Module, students on April 15, 2025, visited the Sultan Qaboos University Hospital to bridge theoretical learning with practical application. The trip aimed to enhance fieldwork skills, critical thinking, and group collaboration through real-world exposure. Key observations included data collection techniques, field sampling methods, and approaches to interpreting the built environment. Students actively participated in designing and executing field strategies, gaining hands-on experience essential for their assessment tasks and future professional roles.





Sultan Qaboos University Hospital

On April 22, 2025, Level 1 EMP and URP students participated in a joint field trip to Al Ansab Wetland in Muscat, as part of three academic modules: Environmental Challenges led by Dr. Abdullah Al-Nad-Analyzing Environmental Change led by Ms. Amna Mumtaz, and Sustainable Technology led by Mrs. Sazya Firdaus. For the Environmental Challenges module, students collected primary data on water, soil, and air quality to support environmental analysis tasks. Those in Analyzing Environmental Change focused on observing ecological systems to better understand natural processes and transformations, while students from the Sustainable Technology module examined the wetland concerning sustainable environmental practices and the application of eco-friendly technologies. The visit offered students from all three modules a valuable opportunity to apply classroom learning in a real-world setting, enhance their fieldwork and observational skills, and gain a deeper understanding of environmental systems and sustainability





Al Ansab Wetland in Muscat

On April 27, 2025, Level 1 UPEM students from the URP "Strategic Planning and Infrastructure" module, under the guidance of Mrs. Yasmin Al Masri, conducted a field visit to Madinet Al Erfan in Muscat. The trip aimed to support module tasks through site analysis and primary data collection. Students observed key features of the site and gathered data for a comprehensive field report. Additionally, they attended Ministry of Housing presentations at the urban planning booth, gaining insights into national urban development projects such as Halban, Sultan Haitham City, and Madinet Al Erfan. The visit deepened their understanding of strategic planning practices and real-world infrastructure development.



Madinet Al Erfan

The field trips of the UPEM program, throughout the academic year, significantly enriched student learning by bridging theoretical knowledge with hands-on experience across diverse urban, environmental, and architectural contexts. Ranging from introductory site explorations to advanced planning and environmental analysis, each excursion was thoughtfully aligned with specific module outcomes and professional skill-building goals. Students at all levels engaged actively in data collection, visual assessments, design critique, and sustainability evaluations. These immersive experiences not only deepened academic understanding but also fostered critical thinking, collaboration, and professional readiness. Collectively, the field trips underscored the program's strong commitment to experiential, interdisciplinary education that prepares students to navigate complex, real-world challenges

GCET Launches New Employability Skills Program to Prepare Students for the Job Market



Mr. Suleiman Al Balushi Student Career Counselling Officer

In response to the increasing demand for work-ready graduates, the Global College of Engineering Technology (GCET) has and comprehensive launched a employability training program designed to equip students with the essential skills required to thrive in today's competitive job market. This structured initiative underscores GCET's commitment to bridging the gap between academic learning and professional expectations, ensuring that its graduates are well-prepared to make a confident transition into the workforce.

The comprehensive program was delivered by a professional instructor, Ms. Stella Da Silva, through four focused sessions. The training blends theory with practical exercises, ensuring students gain both the knowledge and the confidence needed for career success.

Key Objectives of the Program Include:

- Introducing students to key professional skills.
- Enhancing employability and communication skills.
- Developing leadership, deci sion-making, and teamwork abilities.
- Equipping students and gradu ates with tools to secure employ ment or pursue vocational train ing.

Training Highlights

- Crafting CVs that are tailored for specific roles and optimized with relevant keywords.
- Understanding Applicant Track ing Systems (ATS) and how to create ATS-friendly CVs.
- Learning effective interview tech niques using the STAR method.
- Embedding soft skills that boost confidence for first-time job seek ers or those aiming to upskill.
- Leveraging LinkedIn and other social media platforms for job searching and professional networking.

This initiative reflects GCET's commitment to student success beyond academics, helping graduates transition smoothly into the workforce and compete effectively in the job market.





Dr. Issa Mahmoud Associate Professor

FYP in collaboration with WAKUD

A level student of UPEM's Environmental Management and Practice Program, Fatima Al Shehhi, carried out an experimental FYP under the supervision of Dr. Eng. Issa Mahmoud with the title "Experimental comparative analy



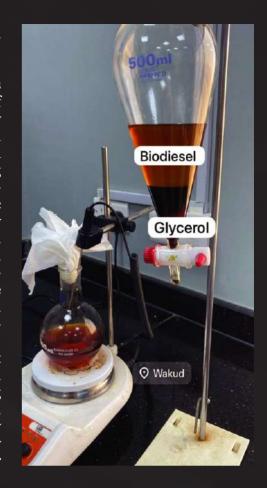
Dr. Amna Al SaadiHead of Academic Department
of UPEM and Associate Professor

On May 7, 2025, the Department of Urban Planning and Environmental Management (UPEM) at GCET held its fifth departmental gathering with students, faculty, and staff for an afternoon that was as meaningful as it was enjoyable. The gathering was a chance for everyone to reconnect not just around work, but around shared experiences, thoughtful conversation and celebrating success and achievements.

sis of converting used cooking oil and dates' pits into biodiesel".

The main part of this FYP was done with the collaboration of WAKUD, a pioneering company specializing in sustainable fuel solutions by converting the used cooking oil into biodiesel, utilizing WAKUD's state-of-the-art recvcling facility. A series of systematic experiments were conducted by working closely with the technical team to optimize the biodiesel production process. The collaboration with WAKUD provided the student with invaluable hands-on experience enhancing her technical proficiency.

The findings from this experiment have a measurable impact on Oman's energy sector, aligning closely with Oman Vision 2040, which emphasizes sustainability and innovation in the energy sector in addition to the circular economy.



Fifth Department of Urban Planning and Environmental Management Gathering



Certificates were awarded to celebrate the staff's commitment and dedication. Also, the contributions of students were appreciated who had shown dedication and spirit in department activities throughout the year.

What made the day special were the moments of connection that continue to make UPEM a dynamic and inspiring space for future leaders. Friendly, inclusive, and full of energy, the gathering reminded us all that the strength of UPEM isn't only in its curriculum or research—it's in the people who bring it to life.



Unlocking Industry Insights by sharing Sustainability approaches: UPEM Guest Lecture Series

Mrs. Yasmin Al Masri

Associate Professor

To enhance academic learning and promote professional awareness. the Department of Urban Planning and Environmental Management (UPEM) organized a vibrant series of guest lectures during the academic year 2024–25. These sessions, held across both semesters, brought in domain experts from academia and industry to engage students on real-world topics aligned with their course modules. The initiative enriched classroom learning with practical insights, supported learning encouraged critical outcomes, thinking, and reflected the sustainable development goals of Urban planning, besides the national priorities regarding Oman Vision 2040 and Oman National Spatial Strategy ONSS.

Semester 1 Highlights (October 2024 – January 2025)

The first semester featured guest lectures across the Urban Planning Department, which were related to the level 2 module Future Places.



The session was with ENG, Naser Al Sayegh from the Ministry of Housing and Urban Planning, A Technical Director Muscat Structural Plan, who delivered a detailed session on the Oman Spatial Strategy ONSS as part of the Future Places module. Hosted by Mrs. Yasmin Al Masri on 23/10/2024,

The Guest Speaker explained to the L2 students the Oman Spatial Strategy ONSS stages sections. Aside from a plan outline directing spatial development in Oman, it considers balanced growth across regions, careful use of resources, and sustainable development from an environmental perspective. It is in accordance with Oman Vision 2040 and international benchmarks such as the UN Sustainable Development Goals (SDGs). Students were excited to have him as a Guide from the Ministry of Housing and Urban Planning on how further they are going to be involved with their cities and urban planners' future-designed Strategies and planning. The purpose was, of course, to highlight the importance of an urban planner in future achieving sustainable places.

Objectives:

- 1. MO1/MO6: To explain Oman's Multi-level Spatial Planning Hierarchy (national-regional-local) and its alignment with Oman Vision 2040 and SDGs.
- 2. MO4/MO7: To critique the interplay between heritage preser vation and modern Urbaniza tion Challenges.

Lecture Focus

ONSS Framework: Hierarchical Planning (national priorities to local master plans) and SDGs integration, especially SDG 11 for Sustainable Cities, and gave the example of the Sultan Haitham City Master Plan.

Student Engagement

Interactive debate on balancing

rapid Urban Planning Challenges in Muscat regarding Traffic Jams and Urban Planning Development Plans in Oman generally.

Outcomes

MO5/MO7: Students proposed place-based solutions for Muscat transportation and Urban formation regarding the local issues, integrating ONSS Principles.



Semester 2 Highlights (February 2025 – June 2025)

Semester 2 in Urban Planning and Environmental Management has been full of industry engagement and students' engagement.

On the 4th of May 2025, Eng. Sumaiya Mahmood Al Abri, Head of Transport Modeling, MTCIT at from Ministry of Transportation, delivered a significant lecture on Muscat's current Transport challenges and declared with detailed explanations the local and National strategic planning and procedures to promote Transportation in Oman generally and in Muscat locally. In addition, she addressed the Muscat Metro strategic steps. The session on Sustainable Transport in Greater Muscat is for the Sustainable Transport: Technologies and Behavior module L3 and the Strategic Planning and Infrastructure module L1. Hosted by Mrs. Yasmin Al Masri, the lecture emphasized Sustainable Transport and its challenges in Greater Muscat, and the Transport Strategic Plan for 2040.



Objectives:

- 1. STTB: MO2/MO3: Explaining and evaluating the Muscat metro's role in reducing the pressure on the main roads, and reducing CO2 emissions in a city like Muscat designed for cars.
- 2. SPI: MO1/MO3/MO4: Explain ing Strategic Planning on the local level regarding Transportation Infrastructure and roads Metro...), proposing the strategic plan of 5 years for greater Muscat, and analyzing the reasons for the plan

Lecture Focus:

SFive-Year Strategic Plan: Aligning Transportation infrastructure with economic diversification and industry innovation, SDG 9.
Technical Solutions: Using Technical solutions such as AI driving

Technical Solutions: Using Technical solutions such as AI driving systems (Driven Traffic Management), and most importantly is the electric mobility adaptation to reduce environmental harm and negative effects.

Students engagement:

The interactive session promoted student engagement using Q&A slides and asked students for their own opinion and debates on the transportation issue regarding the sustainable transport modes available in Oman and their own promotional materials of the Sustainable Transport Modes (their Assessment).

Outcomes:

MO4/MO5: Students were engaged with the practical side of the policies and strategic planning in Oman regarding Oman Vision 2040 and the Muscat Metro plan, besides the Muscat Structural Plan.

This was followed by a workshop for Micro mobility and entrepreneurship under the same modules on 4th May, Another Industry engagement regarding the STTB students' assessment and their Promotion Materials of Sustainable Transport Modes. ENG. Omar Khalaf Al-Hoqani-Founder & CEO @ Sofred Mobility to give a lecture titled Transforming Urban Mobility: Sofred's Journey and Impact. The lecture was delivered to fulfill the learning outcomes of Sustainable Transport: Technologies and Behavior, Level 3, and Strategic Planning and Infrastructure, Level 1, at the Program Urban and Regional Planning, hosted by Mrs. Yasmin Al Masri.

Objectives:

- 1. STTB: MO1/MO2: To critique the micro mobility-scooter used in Muscat bay –Sultan Qaboos University –Nizwa, as a demand management tool for last-mile connectivity.
- 2. SPI: MO5/MO6: To analyze the scooter as a micro mobility example and discuss more types of micro mobility avail able in Oman, besides the challenges faced by the users of the scooter.

Workshop Focus:

Sustainability metrics: Explaining the Data and CO2 reductions after 2 years of using such micro mobility in Nizwa scooters are now considered a good choice in Nizwa. Entrepreneurship: Where scooters can be used for short distances, like in the parts of the city of Nizwa, which is related to the 15-Minute Designed City. And sustainable transport modes.

Students' Engagement and Outcomes:

Sofred mobility offered students a collaboration using the sustainability metric data for their final year projects Additionally, they also offered a collaboration to encourage students, especially females to use the scooter and discuss with the students the challenges they face in general to promote a satisfying solutions to make people consider the scooter as useful transport mode and adapt the sustainable behavior.



COLLEGE ACTIVITIES

Reflections and Impact

The Guest Lectures series enhances the understanding of the Urban Planning Principles and infrastructure, Strategic Planning Phases, Sustainable Urban Planning strategies of future places, and sustainable Transport planning regarding Urban Planning policies in Oman and Oman Vision 2040, ONSS, and Sustainable Development Goals. Throughout the Academic Year 2024/2025 for

Urban Planning and Environment Management at the Global College of Engineering and Technologies. The series of Guest lectures bridges Theory with Practice, empowering future planners to address innovative Sustainable strategies and solutions.

The Department extends its sincere gratitude to all guest speakers, faculty coordinators, and organizing staff (including the Marketing team and all supporting staff) for their invaluable contributions.

With continued commitment to academic excellence and industry integration, we look forward to expanding this initiative through analytical sessions, community engagement, and strengthened industry partnerships in the upcoming academic year.



GCET Joins IAESTE

Mr. Suleiman Al Balushi Student Career Counselling Officer

The Global College of Engineering and Technology (GCET) is proud to announce its official membership in the International Association for the Exchange of Students for Technical Experience (IAESTE). This milestone reflects GCET's ongoing commitment to delivering exceptional educational and professional development opportunities for its students.

Participation in the IAESTE program opens doors for GCET students to undertake international internships that offer hands-on technical experience, cross-cultural engagement, and exposure to global industry standards. These internships not only enhance academic and professional growth but also empower students to thrive in an increasingly interconnected and competitive world.

In a significant development for international student exchange programs, IAESTE (International Association for the Exchange of Students for Technical Experience) continues to facilitate valuable internships for students globally.

In June 2025, Mr. Mohammed Al Adawi, a Mechanical Engineering student from GCET, was selected through the IAESTE exchange program for a two-month training period in Jordan with Kia Motors. This opportunity allows Mr. Al Adawi to gain practical experience in a leading automotive company. We are also expecting several international students from various countries to join GCET for internship placements, further enriching our global academic and cultural exchange.



IAESTE plays a crucial role in providing students with opportunities to gain professional experience in real work environments, fostering intercultural understanding, and building international professional networks. These paid internships allow students to apply their academic knowledge, develop essential skills, and immerse themselves in diverse working cultures.

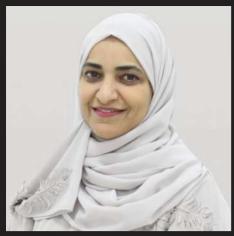
The program also benefits host companies and universities by providing access to talented international interns who bring fresh perspectives and insights. Mrs. Shamsa Mohammed Al-Mahrooqi
Activities Officer

Breaking fast, Building memories.

In March 2025, SEEO hosted a Staff and Alumni Iftar at the Oman Convention and Exhibition Centre (OCEC), attended by faculty, staff, and alumni along with their families in a warm and engaging setting. The evening fostered a spirit of connection and celebration, featuring light-hearted entertainment activities and interactive games. Attendees enjoyed a series of fun competitions, with valuable prizes awarded to winners, adding excitement and joy to the gathering.



In addition to the festive atmosphere, alumni had the opportunity to reconnect and share updates on their personal and professional journeys. The event reflected GCET's commitment to building a strong, inclusive community and maintaining meaningful ties with its graduates.



Dr. Suad Al KindiDirector of Research &
Innovation/Associate Professor

&

Mrs. Amal Al Hattali

Data Analyst Engineer

Research and Innovation
Office (RIO)
Advances Interdisciplinary
Dialogue Through Fortnightly
Seminar Series Through
the Academic Year

The Research and Innovation Office (RIO) at GCET continues to foster a dynamic and collaborative research culture through its Internal Fortnightly Research Groups Seminar Series. This initiative has swiftly become a cornerstone of academic engagement at the college, promoting the active exchange of ideas and expertise across a broad spectrum of disci-plines. Each session highlights the depth and diversity of research being undertaken at GCET, with seminars led by one of the college's nine research groups: Mechanical Engineering, Automation and Robotics, Communications, Education and Community, Cyber Security, Computer Science,

Renewable Energy, Public Health & Environmental Management, and Urban Planning. The series was launched with a presentation by Mr. Mohammed Abu Safaqah from the Mechanical Engineering group on "Application of

Nanotechnology Material in Science". The session drew strong participation facilitated and vibrant discussion on advanced materials and cross-disciplinary applications of nanotechnology. This was followed by a talk from the Communications research group by Dr. Irfan Memon titled "The Future of Computing: Exploring All Optical Logic and Its Applications in Ultrafast Data Processing", which sparked

discussions

cutting-edge computing technolo-

gies, data analysis, and future

productive

research directions.

Dr. Ahmed Hosseini, Head of Education and Community Research Group, contributed to the series with a thought-provoking seminar on the ethical and responsible use of artificial intelligence for lifelong learning. His talk emphasized key principles such as transparency, data diversity, continuous monitoring, and collaboration, while also highlighting international best practices in AI-driven education.

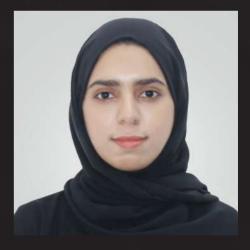
Representing the Renewable Energy research group, Dr. Issa Mahmoud delivered an insightful presentation on "Solar Thermal Energy Technology and Parabolic Trough Collectors". His seminar addressed the importance of solar thermal solutions in meeting industrial heat demands and supporting Oman's renewable energy objectives, with a focus on energy storage and sustainable technology deployment.

The Public Health & Environmental Management Research Group contributed to the Fortnightly Research Groups Seminar Series by a talk delivered by Mrs Sazya Firdaus entitled "A Comparative Study of Land Evaluation for Agriculture Using Soil Moisture Content and Remote Sensing Technology." Her session presented key findings from her TRC-funded research conducted in the Al Batinah region, demonstrating how

the integration of in-situ soil moisture assessment and remote sensing technologies can support sustainable agricultural planning. The Fortnightly Research Groups Seminar Series stands as a testament to GCET's commitment to nurturing a robust research environment that encourages knowledge-sharing and interdisciplinary innovation.



Dr. Mira ChittHead of Academic Department
of Mechanical Eng. (ME)
& Associate Professor



Ms. Khulood Al Ghafri Lab Technician

ME Day

On April 28, 2025, the Mechanical Engineering Department and ME Club at GCET hosted ME Day, an exciting event that brought students and staff together to celebrate innovation and hands-on learning in mechanical engineering.

COLLEGE ACTIVITIES







Running from 10:00 AM to 4:30 PM, the event offered a full day of engaging and hands-on activities. Throughout the day, attendees observed live 3D printing demonstrations, providing a compelling insight into modern design and manufacturing technologies. After the lunch break, attendees took part in a spirited technical debate, exploring current topics in engineering and sharing diverse viewpoints.

The day wrapped up with the ME Students Competition, where students tackled engaging challenges and showed off their problem-solving skills.

ME Day was all about learning, connecting, and celebrating the creativity of our engineering community.

Pasta Structure Competition

Dr. Mira Chitt & Ms. Khulood Al Ghafri

On April 22, 2025, GCET students brought their creativity and engineering skills to the table for the Pasta Structure Competition hosted by the Mechanical Engineering Club.

The event kicked off with a brief introduction of the tasks, followed by the main challenge: designing and building strong, stable structures using only pasta! Students worked in teams, thinking critically and creatively to turn dry noodles into impressive engineering models.

After the building phase, judges evaluated the structures based on strength, design, and originality. The excitement wrapped up with the announcement of the winners, who took home bragging rights—and maybe a few carbs of glory!

The event was a fun, hands-on experience to apply engineering concepts, build teamwork, and of course, have a good laugh over spaghetti beams and penne joints.





ME Field Trips

Dr. Mira Chitt | Ms. Khulood Al Ghafri & Ms. Abrar Al Amri

The site visit to Oman Cement Company provided an enriching experience for the participating students from the Department of Mechanical Engineering, offering an understanding of the operational and production processes of one of the leading cement manufacturing facilities in Oman.



The visit began with a short introductory session in the conference room. The company's representative provided an overview of cement production, covering the key processes involved in transforming raw materials into finished cement products. This included a detailed explanation of quarrying, raw material preparation, clinker production, and the final grinding and packaging process. Students also learned about the sustainability measures adopted by the company to minienvironmental impacts, including waste heat recovery and alternative fuel usage.

The next stop was the control room, where students observed how advanced monitoring and automation technologies are utilized to control and optimize the production processes. Operators demonstrated real-time monitoring of temperature, pressure, and material flow within the rotary kilns and other critical equipment. The visit proceeded to the main production facility, where students observed the cement manufacturing process firsthand:



The next stop was the control room, where students observed how advanced monitoring and automation technologies are utilized to control and optimize the production processes. Operators demonstrated real-time monitoring of temperature, pressure, and material flow within the rotary kilns and other critical equipment. The visit proceeded to the main production facility, where students observed the cement manufacturing process firsthand:

M Grinding Mills: A walkthrough of the ball and vertical roller mills showcased how raw materials are finely ground to prepare them for clinker production.

Notary Kilns: The highlight was seeing the massive rotary kilns in action, where materials are heated to high temperatures to form clinker.

☐ Clinker Cooling: Students were shown the cooling process, where the clinker is rapidly cooled and stored for later grinding.

Reflections:

The students were actively engaged throughout the visit, asking questions about the challenges faced in cement production and the role of mechanical engineering in maintaining operational excellence. The experience provided valuable real-world exposure, bridging the gap between academic knowledge and industrial applications.

The site visit to 4Atoms Lab in Ghala Industrial Area offered students an insightful tour of the facility, showcasing the advanced technologies used in 3D printing, additive manufacturing, and digital manufacturing.

1. Facility Tour:

The visit began with a guided tour of the lab, where students were introduced to the cutting-edge equipment and processes used in various industries.

- Formlabs 3D Printing Section: Students observed the operation of stereolithography printers, known for their precision of up to 25 microns. They explored how these printers are utilized for creating dental molds, intricate jewelry designs, and engineering prototypes using diverse printing materials.
- Shining Dental 3D Scanners: The lab demonstrated Shining Dental's advanced 3D scanning devices, highlighting their applications in dentistry. Students saw the workflow of oral scanners and lab devices that enable the creation of highly accurate digital dental models.
- Ultimaker FFF Printers: The group visited the Ultimaker section, where the S series printers showcased their capability to handle complex materials such as steel and carbon fiber. The additional accessories, including the Air Manager and Material Station, were explained as key features for industrial-grade operations.
- CADstar Dental Scanners: Students learned about the precision (up to 5 microns) of CADstar scanners, observing how they cater to dental labs with their affordability and reliability in creating detailed 3D models.

COLLEGE ACTIVITIES



Reflections:

The visit provided students with practical exposure to modern manufacturing technologies and their applications in industries such as dentistry, engineering, and jewelry. Students appreciated the opportunity to see real-world implementations of concepts learned in the classroom.

The visit to Oman Cables Industry (OCI) Plant 2 provided students with an excellent opportunity to explore real-world industrial practices, focusing on research and development, quality assurance, and manufacturing processes.

The visit commenced with a 30-minute session on Health, Safety, and Environment (HSE) conducted by OCI representatives. session emphasized the importance of safety protocols and provided an overview of the company's operations. Students were introduced to OCI's extensive range of electrical products, including medium and low-voltage power cables, control cables, instrumentation cables, and overhead power transmission line conductors. The company's commitment to innovation and the production of cables with special features was also highlighted.

The core part of the visit involved a 90-minute session focused on three critical areas:

Research and Development: Students were introduced to OCI's approach to product innovation, with a focus on enhancing cable performance and meeting specific client requirements. The session showcased the role of R&D developing cables with advanced features such as improved thermal performance and high tensile strength.

☑ Quality Assurance: Students observed the stringent quality control measures in place to ensure product reliability and durability. They were shown the testing equipment and procedures used to evaluate cable performance under various conditions.

Manufacturing Processes: The discussion covered the processes involved in cable production, from material selection and extrusion to insulation, armouring, and final testing. Students learned about the challenges of maintaining efficiency and precision in large-scale manufacturing.



3. Plant Tour:

The visit concluded with a 30-minute guided tour of Plant 2. Highlights of the tour included:

- Extrusion Lines: Students observed how raw materials are melted and shaped into high-quality cables.
- Testing Facilities: Demonstrations of tensile strength and insulation tests gave students a firsthand view of quality assurance practices.
- Finished Product Storage: The tour ended with a look at the organized storage and dispatch area, illustrating the logistics of delivering products to customers globally.

Reflections:

The visit provided students with a comprehensive understanding of the cable manufacturing industry, emphasizing the importance of engineering in product design, quality assurance, and process optimization. The hands-on exposure enhanced their appreciation of the technical and operational challenges faced by industries.





Dr. Milad Heidari
Associate Professor
Dr. Sivasakthivel Thangavel
Associate Professor

In February 2025, a group of engineering students from the Global College of Engineering and Technology (GCET), Oman, travelled to Iran to attend a one-week winter camp at the Persian Gulf University (PGU) in Bushehr, Iran. The opportunity offered students an enriching blend of educational sessions, industrial exposure, cultural engagement, and collaborative dialogue. This initiative reflects GCET's commitment to nurturing globally aware, industry-ready graduates.



The Winter Camp aimed to bridge the gap between classroom learning and real-world engineering challenges. Participants attended two technical workshops facilitated by PGU's leading faculty members. These workshops focused on emerging topics such as digital oil field technologies and advanced petrochemical processing, offering students valuable exposure to Iran's cutting-edge practices in energy and engineering.

GCET Participation in Prestigious Winter Camp at PGU University, Bushehr, Iran

In addition to classroom-based learning, the camp featured industrial visits to major petrochemical plants in Asaluyeh, a region often referred to as the heart of Iran's energy economy. During these visits, students explored operational facilities, control rooms, and process systems, gaining firsthand knowledge of large-scale industrial operations, safety systems, and sustainable practices adopted by Iranian companies. The students also visited three companies located in the Special Economic Zone, where they observed the interplay of engineering, logistics, and supply chain management. These visits showcased how Iran's industrial infrastructure integrates with its economic strategies, providing a comprehensive understanding of how engineering supports national development and global trade.



Beyond technical enrichment, the camp offered an exceptional opportunity for cultural exchange. GCET students proudly represented the Sultanate of Oman at the International Cultural Festival hosted by PGU. Wearing traditional Omani attire and displaying elements of Omani heritage, the students captivated audiences and fostered meaningful connections with peers from different cultural backgrounds. The cultural festival served as a dynamic platform for promoting mutual understanding and global citizenship, aligning with the broader objectives of international education. GCET students engaged in dialogue, performances, and shared storytelling, celebrating both diversity and unity among students from various countries.



The camp also incorporated a strategic academic dimension, featuring several departmental-level meetings between faculty from GCET and Persian Gulf University (PGU), particularly within the Mechanical and Electrical & Electronics Engineering departments. These discussions laid the groundwork for prospective research collaborations, student exchange initiatives, and joint academic events, all aimed at broadening the academic and professional

COLLEGE ACTIVITIES

horizons of both institutions. Both GCET and PGU emphasized the importance of sustainable international partnerships in engineering education. By leveraging the strengths of both institutions, future collaborative projects could address global engineering challenges while enriching the academic experiences of students and faculty alike.



Ms. Basanthy V M
Assistant Professor

On May 1st, 2025, a group of Indian school students visited the Mechanical Engineering Department of Global College of Engineering and Technology (GCET). The visit was a part of the GCET's community engagement initiative and the school's career exploration aimed at introducing students to various fields of higher education and the latest in engineering technologies.

The day began with a warm welcome from the faculty and student ambassadors of the Mechanical Department. The students were given a brief overview of the department, including insights into the Bachelor's and Master's programs offered at GCET. The staff explained how these programs are designed to blend theoretical knowledge with practical skills, preparing students for diverse careers in industries such as manufacturing, automotive, aerospace, robotics, and renewable energy.

For GCET students, this was not only an academic trip but a deeply transformative experience. It broadened their technical competencies, deepened their appreciation of cultural diversity, and inspired a greater sense of purpose as global engineers. Such programs are essential in shaping graduates who are not only technically skilled but also culturally sensitive and globally minded.



Dr. Khalid AnwarAssociate professor

Following the introductory session, students had a series of interactive sessions and hands-on activities designed to ignite their interest in engineering. One of the first highlights was the demonstration of thermal imaging cameras. Students learned how these cameras detect heat patterns and are used in various applications like building inspections, automotive diagnostics, and even firefighting. Each student got a chance to operate the camera and identify temperature differences in everyday objects, which fascinated them.

Next, the students explored the world of 3D Computer-Aided Design (CAD). They were introduced to professional CAD software, SolidWorks, used by engineers to design complex components and systems. Under the guidance of the faculty, students tried their hands at designing simple mechanical parts.



Indian School visit

The visit continued with a demonstration and activity in 3D additive printing. Students observed the working of a 3D printer and understood how designs made on CAD software are transformed into physical objects.

One of the most thrilling segments of the visit was the drone assembly workshop. Students were introduced to the basic components of a drone and the principles of flight. Working in small groups, they assembled mini drones under supervision.

By the end of the visit, students had not only gained knowledge about mechanical engineering and its applications but also developed a deeper appreciation for innovation and technology. Many expressed interest in pursuing careers in engineering and technology after this insightful experience.

The school extends its heartfelt thanks to the Mechanical Engineering Department of GCET for organizing such an informative and enjoyable visit.



Indian School visit





Mr. Mohammed Abu SafaqahAssistant Professor

As part of the ongoing collaboration under the Memorandum of Understanding (MoU) between the Global College of Engineering and Technology (GCET) and Wakud, a delegation from GCET visited Wakud's biodiesel facility located in Khazaen Economic City, Barka, on 13 January 2025.

The delegation was led by Dr. Suad Al-Kindi, Director of the Research & Innovation Office at GCET, and included representatives from various departments across the College. The primary objective of the visit was to explore potential areas of research collaboration, particularly in the fields of sustainable energy and waste-to-energy technologies.

The team departed GCET at 10:30 AM and arrived at the Wakud facility by 11:00 AM, where they were warmly welcomed by the principal





GCET Delegation Visits Wakud Facility in Khazaen Economic City

engineer overseeing operations. The visit began with an informative session detailing the facility's operations, including its biodiesel production capacity and daily output.

Following the briefing, the delegation was taken on a guided tour of the facility. During the tour, they observed the advanced technologies used to recycle waste cooking oil into high-quality biodiesel. Key highlights included the quality assurance measures employed to meet both local and international fuel standards, and the facility's solar power system, which currently supplies approximately 50% of its energy needs.

The visit concluded with a meeting between the GCET delegation and the chairman of Wakud, Discussions focused on various avenues of collaboration, including opportunities to enhance biodiesel production efficiency, reduce energy consumption, and involve GCET students in research projects aligned with Wakud's mission. Additional topics included student internships, potential employment for recent graduates, and technical financial support student-led initiatives.



The visit ended with a business lunch hosted by the chairman, and the delegation departed the facility at 3:00 PM. Overall, the visit was a great success and marked a significant step towards building a strong, mutually beneficial partnership between GCET and Wakud. It also reflects GCET's commitment to fostering ties with key industrial sectors in Oman, particularly those aligned with the College's academic programs.

This collaboration is expected to create valuable opportunities for GCET students, ranging from internships and research projects to future employment in Wakud's current and upcoming facilities across Oman.



Dr. Muhammad LatifAssociate Professor

Empowering Minds: A Week of Practical Insights at GCET

The Global College of Engineering and Technology took a significant step in bridging the gap between classroom learning and the demands of the real world through two impactful guest sessions held on April 28th and 29th, offering students rich exposure to project management and entrepreneurial practices.

Bridging Theory and Practice: A Masterclass in Project Management.

The first day of the week kicked-off with a compelling session titled "Theory and Practical in Project Management", led by Mr. Mohammed Anghoba, Technical Manager at Dhamen Information Technology. With over 11 years of international experience, Mr. Anghoba offered students an in-depth look into the realities of managing projects beyond textbooks.

His talk explored real-world challenges in project management, including risk mitigation, resource allocation, and stakeholder coordination, drawing on his extensive experience in dynamic technology environments. The session sparked active student engagement, with a lively Q&A addressing

Bridging Theory and Practice: A Master class in Project Management From Idea to Enterprise: A Hands-On Entrepreneurial Workshop

topics such as Agile versus Waterfall methodologies, career readiness, and effective project lifecycle planning. Beyond enhancing academic understanding, the session inspired students to approach project management through a practical, industry-informed lens.

From Idea to Enterprise: A Hands-On Entrepreneurial Workshop

The momentum continued on the next day, April 29, with a vibrant workshop on Practical Entrepreneurial Skills, featuring Ms. Manar Al-Jahwari, Founder and CEO of Plamour Factory. With her journey from idea to successful business, Ms. Al-Jahwari exemplified what it takes to be an entrepreneur in today's competitive market.

Through interactive discussions and personal insights, she emphasized the value of innovation, resilience, and hands-on learning. Students gained clarity on identifying business opportunities, building brands, and navigating the early stages of a start-up. Her passion and authenticity inspired attendees to pursue their entrepreneurial dreams with confidence and creativity.

building brands, and navigating the early stages of a start-up. Her passion and authenticity inspired attendees to pursue their entrepreneurial dreams with confidence and creativity.

These sessions marked a dynamic week of experiential learning at GCET, reinforcing the institution's commitment to preparing students not just for exams, but for excellence in their future careers.





Mrs. Mohsina Mirza

Assistant Lecturer / Student Support

The Department of Electrical and Electronics Engineering (EEE) at the Global College of Engineering and Technology (GCET) continued its commitment to fostering a vibrant research culture in alignment with Oman Vision 2040. Through impactful publications, academic-industry collaborations, international seminars, and high-profile conference engagements, the department has successfully positioned itself as a contributor to both regional and global advancements in engineering research. Faculty members demonstrated excellence across a diverse range of fields, including control systems, satellite engineering, artificial intelligence, embedded systems, renewable energy, and optical communication.

1. International Seminar or CubeSat Technologies

On October 31, 2024, the EEE Department participated in a seminar titled "CUBESATA: Revolutionizing Space Exploration and Education", hosted by Sultan Qaboos University (SQU). The keynote speaker was Dr. Rehan Mahmood, a leading expert in CubeSat and lunar satellite missions. His presentation covered the structure, applications, and challenges of CubeSats, emphasizing their dual role in exploration scientific hands-on STEM education. Faculty from GCET attended both

Research and Academic Contribution EEE Department 2024–2025

in-person and in virtual mode, gaining technical insights into satellite development and educational integration strategies.



2. Participation and Contributions to ICSDET-2025

In partnership with the University of Technology and Applied Sciences (UTAS), the EEE Department played a central role in the International Conference on Sustainable Development in Engineering Technology (ICSDET-2025), held from April 30 to May 1, 2025. GCET contributed three faculty-led student research papers and appointed departmental representatives as session chairs. Active participation from Dr. Javeed Hussain as session chair while, Dr. Taleb Mozeini, and Ms. Mohsina Mirza presented student papers that showcased EEE departments collaborative strength in sustainable technology and research excellence.





3. Professional Certifications: Advancing Pedagogy and Practice

Dr. Mohtaram, Associate Professor and Program Leader for Control Instrumentation and Engineering (ICE), successfully completed two NPTEL certifications in Project Management and Modeling & Simulation of Dynamic Systems. These certifications bolstered his capability to mentor complex engineering projects and simulate real-time control systems engineering across multiple domains. His contributions to curriculum development applied research continue to elevate the department's academic delivery.

4. Faculty Research Profiles and Publication Output (2024–25)

Below is a summary of ongoing and published research work by EEE faculty members during the academic year:

- Dr. Javeed Hussain: Dr. Javeed published several works across international journals, conference proceedings, and book chapters, including collaborative research with the University of the West of England (UWE). His focus remains on embedded systems, ML-powered robotics, and student-driven research excellence.
- Dr. Mohtaram: Dr. Mohtaram, Associate Professor and Program Leader for Instrumentation and Control Engineering (ICE),

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successfully published multiple journal and conference papers focusing on intelligent control design, real-time system modeling, and smart automation. His research aligns with national industrial goals and is rooted in real-world applications involving adaptive and embedded control strategies.

- Dr. Irfan Memon: A Chartered Engineer and Associate Professor, Dr. Irfan's contributions this year spanned interdisciplinary research in optical systems, embedded automation, and sustainable energy technologies. His publications reflect a commitment to bridging theory and application, with active collaboration across institutions.
- Dr. Taleb Mozeini: Specializing in modern communications, Dr. Taleb contributed to journals and conferences in 5G and beyond, promoting innovations in antenna engineering and wireless system design through active research partnerships and student mentoring.
- Ms. Mohsina Mirza: Assistant Lecturer and PhD aspirant, Ms. co-authored Mohsina several papers focusing on AI-driven solutions, IoT applications, and student-centered innovation. Her research aims to address through real-world problems cutting-edge technologies and educational impact.

The details of the publications for the year 2024-25 are mentioned below:

1. Symes Declan, Rose Michael, Nunez Sardinha Emanuel David, Jafari Aghil, Hussain Javeed, Etoundi Appolinaire, "The Anthro-Thumb: a biomimetic hybrid soft robotic carpometacarpal saddle joint for the thumb", Frontiers in Robotics and AI, Volume 12 - 2025, DOI=10.3389/frobt. 2025.1496073

- 2. Memon, M.I., Mohatram, M., Hussain, J., and Mekhzoumi, N.E., 2024. Electronic warfare frequency hopping for radar communications. Presented at the Beyond Technology Summit on Informatics International Conference 2024, December 2024. Available at: https://ieeexplore.ieee.org/docu-ment/10941869
- 3. Memon, M.I., Mohatram, M., Hussain, J., and Al Mashaykhi, O., 2024. Soft computing-based IoT color and size sorting machine with mathematical modeling. Presented at the Soft Computing and Mathematical Modelling International Conference 2024, December 2024. Available at: https://www.kiet.edu/icscmm.as/
- 4. Mohatram, M., Memon, M.I. Hussain, J. and Al Siyabi, S., 2024. Mathematical modeling and soft computing techniques in smart trolley systems for autonomous customer tracking. Presented at the Soft Computing and Mathematical Modelling International Conference 2024, December 2024. Available at: https://www.kiet.edu/icscmm.as/
- 5. Mohatram, M., Memon, M.I., Hussain, J. and Al Mamari, S. 2024. Design of a smart traffic management system: A soft computing and Mathematica approach to modeling and optimization. Presented at the Soft Computing and Mathematical Modelling International Conference 2024, December 2024. Available at: https://www.kiet.edu/icscmm.as/
- 6. Arora, S., and Mohatram, M. 2024. An exploratory study: Challenges faced by students in learning a compulsory subject of the basics of electrical engineering at the first year level of a bachelor's degree. Presented at the 10th International Symposium on Fusion of Science and Technology (ISFT-2024), January 2024.

- 7. Arora, S., Mohatram, M., and Gupta, D., 2024. An exploratory study on creating an interactive learning environment in lectures for the first-year electrical engineering subject. Presented at the 10th International Symposium on Fusion of Science and Technology (ISFT-2024), January 2024.
- 8. Al Mujarfi, T., Mohatram, M. and Moazzeni, T., 2025. Enhancing water access with solar-powered well systems in Oman. Presented at the International Conference for Artificial Intelligence: Applications, Innovation and Ethics (AIAIE'25), February 2025.
- 9. Al Majrafi, R., Mohatram, M., and Moazzeni, T. (2025). Towards a sustainable future in Oman: Utilizing associated gas for power generation to eliminate gas flaring in the oil industry. Presented at the International Conference on Sustainable Development in Engineering and Technology (ICS-DET 2025), University of Technology and Applied Sciences (UTAS), Al Mussanah, Oman, April 2025.
- 10. Mirza, M., Parameswari, S., Ramachandran, K., Ashok, P., Kumar, S.N., Kannadhasan, S. (2024). Teacher Education for Ouality Enhancement in the Age of Globalisation in Developing Countries. In: Yang, XS., Sherratt, S., Dey, N., Joshi, A. (eds) Proceedings of Ninth International Congress on Information and Communication Technology. ICICT 2024 2024. Lecture Notes in Networks and Systems, vol 1004. Springer, Singapore. https://doi.org/10.1007/978-981-97-3305 -7_25

EEE Staff Achievements - Academic Year 2024-2025

Mrs. Mohsina Mirza Assistant Lecturer / Student Support

The Department of Electrical and Electronics Engineering (EEE) at GCET takes pride in recognizing the outstanding achievements of its faculty members during the 2024–2025 academic year. From national accreditations and invited seminars to professional development and contributions to quality assurance, the EEE team has demonstrated excellence, leadership, and commitment to both institutional growth and innovation.



Dr. Javeed Hussain

We are pleased to share that Dr. Javeed Hussain has been selected for and has successfully completed the esteemed Institutional Standards Assessment (ISA) Training organized by the Oman Authority for Academic Accreditation and Quality Assurance of Education (OAAAOA). The training involved a series of intensive sessions designed to evaluate the participants' knowledge, competencies, and commitment to the principles of quality assurance in higher education. Dr. Javeed excelled throughout the program, showcasing a strong understanding and dedication to these essential standards. His recognition as an External Reviewer will enable him to actively support and contribute to the enhancement of quality assurance practices within Oman's higher education landscape. This accomplishment reflects not only Dr. Javeed's professional excellence but also GCET's commitment to maintaining high-quality education standards.



Dr. Irfan Memon

Dr. Irfan Memon delivered a compelling seminar titled "The Future of Computing: Exploring All-Optical Logic and Its Applications in Ultrafast Data Processing." The session offered deep insights into how optical technologies are revolutionizing data processing. He introduced all-optical logic systems as a breakthrough over traditional electronics, speed, energy efficiency, and scalability as major benefits. The seminar covered optical logic gates, flip-flops, and nonlinear optical phenomena like four-wave mixing and optical injection locking. Dr. Irfan presented prototypes such as semiconductor ring lasers and XOR gates, and discussed their potential in data centers and high-performance computing. The session concluded with discussions on hybrid optical-electronic integration and future research directions, making the talk highly relevant for both academia and industry.



Dr. Mohammed Altayeb

Dr. Mohammed Altayeb successfully completed a three-day intensive workshop organized by the Ministry of Higher Education. The focus of the workshop was on the development and refinement of academic syllabi for Mechatronics courses, ensuring alignment with current technological trends and industry demands. Dr. Altayeb's active involvement demonstrated his strong commitment to academic excellence and curriculum innovation. His contributions are expected to influence course design strategies within department, ultimately enhancing the learning outcomes for Mechatronics students at GCET.



Dr. Nemat El Hassan

Dr. Nemat has been officially awarded the prestigious Chartered Engineer (CEng) designation by the Institution of Engineering and Technology (IET), UK. This globally respected title recognizes her advanced technical capabilities, ethical leadership, and ongoing contributions to engineering excellence. In addition, Dr. Nemat played a key role as the Membership Development Chair of the IEEE Oman Board and was instru

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mental in organizing the IEEE Oman Annual Gathering in December 2024. Her dedication to the professional community earned her formal recognition from IEEE Oman for the successful execution of the event.

In September 2024, Dr. Nemat participated in the "Enhancing Employability through Effective Pedagogies" workshop organized by CLICKS in Dubai. This event focused on equipping educators with innovative teaching strategies to better prepare students for the modern workforce. Upon her return, she conducted an in-house workshop at GCET to share these insights valuable with colleagues, promoting institutional growth in teaching excellence.

Moreover, Dr. Nemat also completed the ISA training by OAAAQA and passed the External Reviewer assessment. She was subsequently approved by the Director General of the Centre for Higher Education Quality Assurance to be added to OAAAQA's prestigious Register of External Reviewers. This achievement is a testament to her commitment to educational quality and affirms her vital role in Oman's national higher education quality framework.



Dr. Mohtaram

Dr. Mohtaram, Associate Professor and Program Leader for Instrumentation and Control Engineering (ICE), completed two professional certifications from NPTEL: Project Management and Modeling & Simulation of Dynamic Systems. These 8-week courses enhanced his capacity to plan, execute, and manage academic and research projects efficiently. The Project Management course equips him with tools to mentor student research and coordinate academic programs, while the Modeling & Simulation course deepened his expertise in analyzing mechanical, thermal, electrical. and hybrid engineering systems. He now applies this knowledge to real-world case studies such as vehicle suspension modeling, leveraging platforms like MATLAB/Simulink to simulate system behavior under varied conditions.

Additionally, Dr. Mohtaram produced educational material to explain how modeling and simulation form the backbone of design optimization. He outlined distinctions between analytical, numerical, and data-driven models and emphasized the value of virtual prototyping in minimizing risk and development time. His contributions have significantly advanced the department's capabilities in control systems and smart embedded applications.





Mrs. Mohsina Mirza

Ms. Mohsina Mirza, Assistant Lecturer in the Department of Electrical and Electronics Engineering, has officially enrolled in a PhD program at the University of the West of England (UWE), furthering her academic journey in the field of Artificial Intelligence and Medical Imaging. As part of her ongoing research, she has successfully established an international research collaboration with the Department of Medical Research at Taiji Clinic, Taiwan. This partnership has facilitated access to a valuable medical imaging dataset, which will serve as the foundation for her PhD research in the development of AI-based diagnostic solutions. This collaboration not only strengthens the global GCET's outreach of endeavors but research supports interdisciplinary innovation at the intersection of healthcare and intelligent systems.



The International Conference on Sustainable Development, Social Responsibility & Business Ethics (ICSDSRBE)- Kuwait

Dr. Amna Al Saadi

Head of Academic Department of UPEM and Associate Professor

Dr. Amna Al Saadi, along with her industrious students Shahad Rashid Al-Amri, Amani Rashid Al Muqbali, and Mariya Ahmed Al Salmi, from the Department of Urban Planning and Management, represented GCET with excellence at the 2nd International Conference on Sustainable Development, Social Responsibility & Business Ethics (ICSDSRBE). The conference, held on April 9–10, 2025, at the Gulf University for Science and Technology in Kuwait.

Their paper, titled "Pedestrian Safety Assessment Using GIS and PEDS Tool", stood out among international submissions and was



honoured with the Best Paper Award. This achievement reflects not only the academic strength of our Urban Planning programme but also the power of mentorship and student-led research at GCET.

The study explored how pedestrian safety can be improved in urban settings by integrating Geographic



Information Systems (GIS) and the PEDS (Pedestrian Environment Data Scan) tool—offering practical insights for safer, more walkable cities.

We congratulate Dr. Amna and her students on this outstanding achievement, which shines a light on GCET's growing impact in regional research and sustainable urban development.



Dr. Muzammil Hussain

Associate Professor

The Department of Computer Science and Creative Technology has demonstrated outstanding research productivity and innovation across multiple domains during the 2024-2025 academic year. This report highlights the department's key achievements in research publications, funding initiatives, peer review contributions, and curriculum integration.

Advancing Research Excellence: A Year of Innovation at CSCT software-defined net published in prestigious

Research Publications and Innovation

The department has produced significant scholarly outputs including 9 journal publications in Q1/Q2/Q3/Q4 ranked international journals, 4 conference papers, 2 book chapters and 1 book. Notable research includes advanced studies in cybersecurity with publications on enhanced DDoS detection systems using machine learning techniques in

software-defined networking, published in prestigious journals. Other impactful work includes AI applications in education, with research examining the adoption and impact of artificial intelligence government schools. department has also contributed to healthcare technology through IoT-based mobile health systems for diabetes care, published as a book chapter by Springer. In the domain of infrastructure and sustainability, researchers developed machine learning models for water loss management and leakage detection in urban areas. Additional publications explore generative AI applications, including a chatbot for personalized news delivery and studies on AI integration in higher education.

Research Funding and Projects

The department has been actively pursuing research funding with 11 competitive proposals submitted to the research council(TRC). These proposals span several strategic areas including AI-driven business solutions for growth, cybersecurity frameworks for industrial applications, and sustainable technology initiatives. Student-led projects feature prominently, with innovative proposals for educational technology platforms, scrap metal recycling systems, and cybersecurity awareness applications. The funding proposals demonstrate the depart

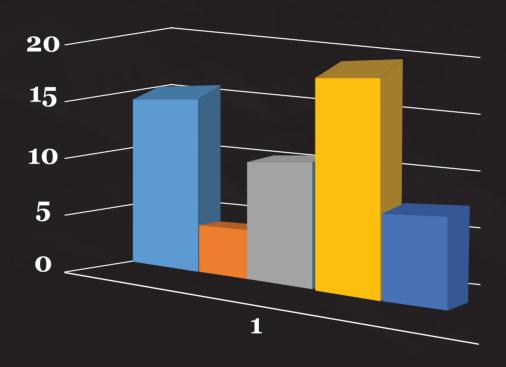
ment's commitment to addressing real-world challenges through applied research and technological innovation.

Academic Contributions and Curriculum Integration

Faculty members have made substantial contributions academic quality through active participation in peer review processes for leading international iournals and conferences. Their expertise spans diverse areas software-defined including networking, ΑI applications, cybersecurity, and IoT systems. The department has successfully integrated research outcomes into its curriculum, with several courses directly incorporating faculty findings. research Examples include cybersecurity courses using published DDoS detection studies as case material, computer architecture courses referencing foundational research, and AI courses examining practical applications in gaming and narrative systems. This integration creates a dynamic learning environment where students engage with cutting-edge research while developing practical skills.

The department's research achievements this year reflect a strong commitment to academic excellence, innovation, and real-world impact. Through its publications, funding initiatives, and curriculum development, the department continues to advance knowledge in key technological domains while preparing students to address contemporary challenges in computer science and creative technology. The breadth and quality of research output position the department as a leading contributor to both academic scholarship and practical technological solutions.

2025 Research in CSCT



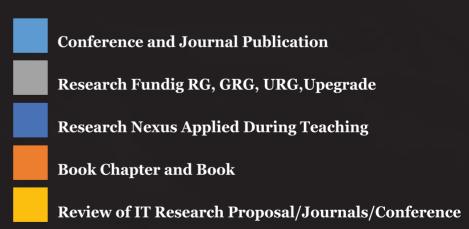


Figure: CSCT Department Research Achievements 2024-25



Mrs. Mohsina Mirza
Assistant Lecturer / Student Support

The Department of Electrical and Electronics Engineering (EEE) continues to empower its students by encouraging participation in a wide range of technical, leadership, and outreach activities. Students from the EE/ARE/ICE streams have demonstrated their excellence in innovation, creativity, and social responsibility projects, through hands-on national competitions, workshops, and public engagement. The following highlights summarize the department's vibrant student achievements:

Bridge to the Galaxy – UTAS Al-Musannah Date: April 27, 2025

Date: April 27, 2025 A team of GCET students took part in the "Bridge to the Galaxy" event hosted at the University of Technology and Applied Sciences, Al-Musannah. The event encouraged students to imagine applications of engineering in space exploration. Our students presented a robotic rover prototype capable of terrain scanning, a Pick and Place robotic arm adapted for low-gravity tasks, and a smart astronaut helmet with sensors to monitor hazardous environments. These creative projects highlighted how academic knowledge can be repurposed for futuristic and extraterrestrial missions, gaining widespread appreciation at the venue.

EEE_ Students' Achievements



Bridge to the Galaxy – UTAS Al-Musannah

IEEE Oman Leadership Training – Military Technological College Date: November 17, 2024

Under the mentorship of Ms. Saba Jayyusi, members of the GEE-TECH students group attended the IEEE Oman Leadership Training. The program included expert-led sessions on managing student branches, an introduction to the V-tool platform, and interactions with leaders like Dr. Ahmed Al Maashri and Dr. Said Al-Abri. Participants were also taken on a guided tour of the Military Technological College, where they explored cutting-edge laboratories and military-grade hardware. The event offered a unique blend of leadership, technical awareness, and exposure to military innova-



Mechatronics Project Exhibition – Sultan Qaboos University Date: February 23–25, 2025

The Mechatronics Engineering Group of SQU organized a high-profile project exhibition where GCET student, Jasim Mohamed Ahmed Al-Lawati. represented the college with his project titled "Semi-Automatic Robot Vacuum Using Bluetooth." With mentorship from Mr. Atta ul Wasay and full support from the EEE department, the project was demonstrated to a large audience, sparking interest due to its practical application in home automation. Jasim and fellow students received participation certificates, reflecting GCET's commitment to nurturing talent through external academic collaborations.

EcoClear Graduation Project – Sustainable AI System Date: Academic Year 2024

A final-year student of Electronics and Telecommunication Engineering, Hadeel Saif Sulaiman Al Humaidi, developed EcoClear, an AI- and IoT-powered waste management system designed to combat plastic pollution in Oman. The system uses RFID-based user identification, real-time feedback, and reward-based incentives to promote recycling. The project attracted investor interest of up to 50,000 OMR and gained support from local service providers. Hadeel credited her mentor, Dr. Irfan, for continuous support and highlighted the project's alignment with Oman Vision 2040. EcoClear stands as a testament to how student-driven innovation can directly impact society.

Pasta Structure Competition

In a fun and refreshing break from their usual coursework, GCET students recently took part in the Pasta Structure Competition — a light-hearted challenge where teams had to build the tallest and

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strongest structure using nothing but dry spaghetti. A team of four students, initially aiming just for fun and stress relief, won first place. The activity promoted design thinking, problem-solving, and teamwork in a light-hearted, pressure-free environment, and called for more such events to balance academic rigor with creativity.



100 Omani Innovators – North Sharqiyah Governorate

Date: August 4–15, 2024 A student from GCET's 1

A student from GCET's EEE/ARE department secured second place in the prestigious "100 Omani Innovators" program. The project, focused on Artificial Intelligence and innovation, stood out among dozens of submissions and reflected the student's commitment to advancing technology with social value. The competition was a platform to meet mentors, industry experts, and policy-makers who appreciated the innovation.



Visionary Crafters – Sur, South Al Sharqiyah

Date: August 18-29, 2024

The same student was selected among the top 30 innovators in the Visionary Crafters program, which

focused on enhancing innovation in Artificial Intelligence and creative technologies. They advanced to the final round and were invited to pitch the project idea, gaining valuable experience in presentation, public speaking, and real-time Q&A with judges.



Muscat FM Radio Appearance – Taaleem Program

Date: October 2, 2024

GCET received media attention when one of its standout students was invited to Muscat FM's "Taaleem" program. The interview focused on the student's achievement in the "100 Omani Innovators" competition that also served as a platform to raise awareness about the Automation & Robotics Engineering program offered at GCET. The session highlighted the impact of hands-on learning and innovation at the college.



Robotics Workshop for Children – Al-Mashareq School, Al-Hail Date: October 13, 2024

A GCET student conducted an outreach robotics workshop for 60 second-grade students, introducing the basics of robotics through engaging, hands-on demonstrations. The session aimed to spark curiosity among young learners and was received enthusiastically by both students and teachers. It reflected GCET's commitment to community involvement and STEM outreach.



Visionary Crafters – Judge Appointment (2nd Cycle) Date: October 27–30, 2024

The same student was honored with an invitation to serve as a judge at the second cycle of the Visionary Crafters competition. They evaluated entries in the fields of scientific innovation, drones, artificial intelligence, and robotics. The selection demonstrated the student's credibility and recognition within Oman's innovation community.

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Visionary Crafters – Judge Appointment (2nd Cycle) Date: October 27–30, 2024



Royal Army of Oman Innovation Competition

Date: Nov 28, 2024 – Jan 7, 2025 A project by GCET students was ranked among the top 20 out of 1,500 submissions in the 9th edition of the Scientific Club Competition organized by the Royal Army of Oman. The competition emphasized innovation in military, technical, and defense applications. Recognition at this level reflected the project's high technical merit and the student's capacity to apply knowledge in specialized sectors.



Robotics Activities for PDO Employees – Fifth Direction Collaboration

Dates: December 10, 2024 & January 9, 2025

GCET students partnered with Fifth Direction to organize and deliver engaging robotics workshops for employees of Petroleum Development Oman (PDO). The event helped build bridges between academia and industry, showcasing students' ability to transfer knowledge beyond the classroom.



Logistics Simulation Competition
– Middle East College

Date: April 28, 2025

GCET participated in a national-level simulation competition involving 15 universities from across Oman. The challenge tested strategic thinking, resource optimization, and systems control in a simulated logistics environment. GCET proudly secured second place, further strengthening its profile in interdisciplinary engineering education.

Ecoclear project Date: April 10, 2025

Hadeel Saif Sulaiman Al Humaidi, a BEng (Hons) Electronics and Telecommunication Engineering graduate from the Global College of Engineering and Technology (GCET), developed EcoClear, an innovative graduation project that integrates Artificial Intelligence and the Internet of Things (IoT) to tackle plastic waste in Oman by promoting sustainable waste management and supporting the country's transition to a circular econo my. The system uses real-time feedback, RFID-based user identification, and a reward mechanism to encourage recycling, and has garnered strong stakeholder interest - securing investment offers between 10,000 and 50,000 OMR, as well as community support from two local entities offering free services.

With guidance from her supervisor, Dr. Irfan, and in alignment with Oman Vision 2040, Hadeel aims to further develop EcoClear using AI-powered vision and collaborate with authorities to deploy the system in public spaces, ultimately inspiring youth-led innovations in sustainability.

The diverse achievements of students from the EEE department at GCET demonstrate a balanced integration of academic learning, creativity, community engagement, and competitive excellence.

Through participation in exhibitions, national competitions, STEM outreach, and industry collaborations, the students have proven themselves to be not only engineers of the future but also ambassadors of innovation and positive change. These accomplishments reflect the department's ongoing commitment to Oman Vision 2040 and the college's mission to empower youth through hands-on, impactful education.



Mr. Sulieman Nasir Alzahli
Technical Demonstrator

Trip to UWE



Day 1:

Our journey from Muscat to the UK began with our arrival in Bristol, where we were welcomed by a knowledgeable tour guide and Dr. who accompanied us Alison. throughout the day. We went on a sightseeing tour around the city, exploring its historical and cultural landmarks. The tour was a fantastic opportunity to learn about Bristol's rich history, visiting famous spots like the historic Old City of Bristol and street art, showcasing the blend of old and new that defines the city.



Day 2:

We visited the university, where we were warmly welcomed by several professors. We were given a tour of the campus, explored its various departments and facilities. Afterward, we enjoyed a delightful lunch with some academics, which provided a great opportunity to learn more about academic life in the UK. In the afternoon, we visited the Formula workshop, where we gained insight into the requirements and conditions for designing a Formula car, giving us a deeper understanding of this high-tech field.



Day 3:

The third day was action-packed with hands-on activities. The students had the chance to work with carbon fiber, and we were introduced to various Formula car structures. It was an exciting day of learning and practical application, giving us a closer look at the materials and technologies used in the construction of race cars.



Day 4:

On this day, we learned about the components of a car, guided by one of the students from the Formula team. Afterward, we returned from the university and met up with the rest of the group who had joined the trip. We headed to the city of Bath, where we explored its famous landmarks and had some time for shopping. Bath's stunning architecture and historical significance made it an unforgettable stop on our journey



STUDENTS NEWS

Day 5:

This day brought the opportunity to dive into the mechanics of a car's gearbox. We learned how to dismantle and assemble it, gaining a deeper understanding of how the gearbox functions. After lunch, we met with the business committee of the Formula team and learned about their role in the team's operations and the business side of motorsport.





Mr. Waleed Mohammed Al Maawali

Manager of Incubation & Innovation Centre and Assistant Professor

The Global College of Engineering and Technology (GCET) continues to solidify its reputation as a hub for student innovation and excellence, with its students earning top honors at the Visionary Ventures Competition and the Logistics Simulation Challenge hosted by Middle East College (MEC). These remarkable achievements reflect GCET's commitment to fostering entrepreneurial thinking and practical problem-solving among its students.

At the Visionary Ventures Competition, GCET's team secured the Gold Medal, standing out among a strong field of participants from various institutions across Oman.



Day 6:

Our final day involved traveling from Bristol to London. We had a brief tour of London, visiting some of the city's famous landmarks and enjoying the vibrant atmosphere. After some sightseeing, we headed to the airport for our flight back home, reflecting on an unforgettable experience in the UK.

Gold Medal in the Visionary Ventures Competition & Silver in Logistics Simulation @ MEC

competition The challenged students to develop innovative business models that address real-world challenges with creativfeasibility, and financial sustainability in mind. GCET's winning project (Taleb Startup) impressed the judges with its clear value proposition, market readiness, and potential impact, marking a significant milestone for the team and the college's Innovation and Incubation Center (IIC), where the project was nurtured and refined.

In addition to this achievement, another GCET team formed by members of the Scientific Innovation Leaders Club (SILC) showcased exceptional analytical and decision-making skills in the Logistics Simulation Competition, where they earned the Silver Medal. This competition tested participants on their ability to manage a hypothetical factory by emulating the dynamic supply chain scenarios using LEGO bricks, requiring quick thinking, teamwork, inventory management, negotiation, and strategic planning. GCET's team demonstrated a deep understanding of



logistics principles and delivered a strong performance that placed them among the top contenders. These achievements are a testament to GCET's educational philosophy that blends academic knowledge with real-world applications. The college's support for through dedicated innovation facilities like the IIC, along with mentorship from faculty and industry professionals, has played a key role in preparing students for success beyond the classroom.

As GCET continues to participate in national and regional competitions, its students are consistently proving their potential to lead in innovation, business, and technology. The recent Gold and Silver wins at MEC are not only a proud moment for the college but also a reflection of its growing influence in Oman's higher education and entrepreneurship ecosystem.



Ms. Amal Al-Hatali Data Analyst Engineer

Several GCET students took part in Traffic Awareness Week, held at the Sultan's Armed Forces Transport Camp under the patronage of Major General Matar bin Salim Al Balushi, Commander of the Royal Army of Oman. The event aimed to promote road safety among military personnel and the wider com-

munity through lectures, exhibitions, and student initiatives.

Our students showcased five research and innovative projects that addressed current traffic and safety challenges in Oman. One of the standout projects was a Camel Tracking System, designed to prevent accidents in desert areas by monitoring camel movements near roads. Another was a Smart Pedestrian Crossing for People with Special Needs, aimed at improving accessibility and safety for yulnerable road users.

These students also presented a Smart Bridge for Wadi Crossings, offering a safer solution for areas prone to flooding, and a project titled Electricity Generation from a Speed Bump, which explored

GCET Students Present Innovative Projects at Traffic Awareness Week



how to produce electricity from vehicle movement on roads. A highlight among the projects was Relieving Traffic Congestion with Least Investment in Infrastructure: A Case Study in Muscat. This project focused on low-cost solutions to improve traffic flow in the city and was supported by the Block Funding Program, reflecting GCET's commitment to encouraging impactful student research through national funding opportunities.

The Research and Innovation Office (RIO) at GCET continuously supports its students by encouraging their participation in research activities and arranging opportunities for them to contribute to various events.

The event provided a valuable platform for GCET students to present practical ideas, apply classroom learning, and engage with national stakeholders. GCET is proud of its students for their innovation, hard work, and contribution to the community.



Hanin Mashaal Al Mudailwi President of the Student Advisory Council (SAC)

On February 23, 2025, GCET's campus turned into a glowing celebration of creativity, community, and student enthusiasm, as the Student Advisory Council (SAC) organized GlowFest, a glow-in-the-dark carnival that brought the students together for an evening filled with joy and connection.

Held from 4:30 PM - 8:30 PM in the open outdoor space of the campus, GlowFest offered a unique atmosphere with glowing lights, live music, and a wide range of interactive activities that reflected the energy of the GCET student body.

From Planning to Impact

GlowFest was planned and executed entirely by SAC, and it stood as an epitome of student-led success. Throughout the planning process, SAC communicated effectively with the participating clubs, volunteers, and vendors, ensuring that every detail aligned with the creative vision for the event. The teamwork, coordination, and dedication of all involved made it possible to turn a simple idea into a truly memorable experience.

GlowFest 2025, Where Creativity, Community, and Celebration Met



A Night to Remember

To support entrepreneurs, Glow-Fest included a student business corner where more than fifteen student-led businesses showcased their products and ideas. It was inspiring to see students turning their passions into action and receiving such strong support from the community.

In addition, eight creative and interactive corners were featured throughout the event, where some of them were organized by student clubs. Each corner contributed in a way that reflected its unique theme or purpose. Whether through art, technology, games, or other engaging experiences, every corner added value to the event and helped create a truly memorable evening for all.

A Shared Success

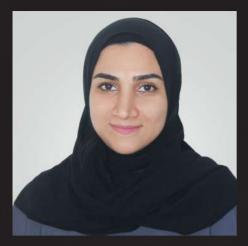
GlowFest was more than just a festive evening; it was a demonstration of what can be accomplished through student leadership, collaboration, and shared purpose. The event brought together the entire GCET community in an atmosphere of celebration, belonging, and pride.

I would like to extend my sincere appreciation to SAC members, whose tireless efforts and teamwork made this event possible. My thanks also go to the student clubs, volunteers, and the college administration for their continuous support and trust. Together, we were able to create a celebration that reflected the heart of our student body.



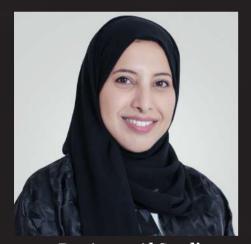
Reflecting on the Journey

As SAC President, I'm confident that GlowFest has been one of the most rewarding highlights of my leadership journey. It reminded me that when students are given the opportunity and support to lead, they create something magical. This experience will remain a meaningful example of what can be achieved through student initiative, teamwork, and shared purpose.



Ms. Maisaa Alrawahi Lecturer (ICT)

Like ink flowing from a well of inspiration, the journey of the Debate and Literary Club Midad, this academic year, has been nothing short of extraordinary. As the club's mentor, I am filled with pride at witnessing our members grow into confident speakers, thoughtful writers, and passionate thinkers.

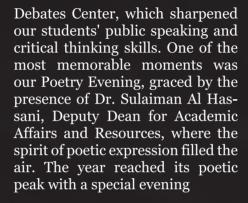


Dr. Amna Al Saadi Head of Academic Department of UPEM and Associate Professor

The funded research grant BFP/GRG, titled "Relieving Traffic Congestion with Least Investment in Infrastructure: A Case Study in Muscat," was completed November 2024. The research team included Zamzam Al Rawahi and Ghusun Al Jaradi from GCET and Theonette Maribojoc from marking an essential collaboration between the two institutions. Dr Amna Al Saadi, Head of the Department of Urban

Verses in Motion: Midad's Poetic Journey of the Year

We began the year with a vibrant Literary Morning, featuring heartfelt poetry recitations with esteemed local poets and an engaging debate between our Midad Debate Team and the Oman Medical College team. This was followed by a series of impactful Debate Training Workshops, held in collaboration with certified judges and trainers from the Oman





dedicated to launching a poetry collection by Mr. Al Azhar Al Shuaaili, one of Midad's gifted members. Each event was a testament to the talent, dedication, and creativity of our students, and I am honored to guide them as they continue to shape a culture of eloquence and literary excellence within our college.

Traffic Awareness Week

Planning and Environmental Management and Programme Leader of Urban and Regional Planning at GCET, supervised the project.

The research initiative brought together 12 students—six from each college—who actively participated in data collection and fieldwork, gaining valuable hands-on experience in real-world urban transportation challenges.

As part of the project's community outreach, GCET students presented five innovative projects focused on traffic awareness during Traffic Awareness Week at the Sultan's Armed Forces Transport Camp, held under the patronage of Major General Matar bin Salim Al Balushi, Commander of the Royal Army of Oman. The event featured awareness lectures, an educational exhibition, creative and student-led initiatives to promote road safety and responsible driving behaviour among military personnel and the wider public.

The Urban and Regional Planning program at GCET has established a strong foundation in transportation research, particularly in promoting sustainable transportation behavior and technology. The success of the Muscat congestion study is one of five studies exploring behaviour/data-driven and technology-integrated transportation studies.



GCET Wins Big at Urban October 2024 Hackathon

Dr. Amna Al Saadi

Head of Academic Department of UPEM and Associate Professor

The Department of Urban Planning and Environmental Management (UPEM) of GCET proudly represented GCET by participating in the Urban October 2024 Hackathon organised by the Ministry of Housing and Urban Planning. Competing against 19 teams from across Oman, two GCET teams were shortlisted among the final 10—and both came away with awards.

Team Sustainable Build took first place with a project focused on green infrastructure and AI-driven energy efficiency in urban development. Their concept demonstrated innovative thinking with strong potential for real-world application. The team included two students Fatma Al Habsi and Amani Al Muqbali from the UPEM department and the industry programmers Almohannad Al Wahaibi, Bashar Al Farsi, and Ahmad Al Habsi.

Team Play Scape earned third place for its creative urban design

concept, which reimagines recreational spaces in cities. Their proposal emphasised the importance of green and interactive public areas for healthier, more inclusive urban living. The team was led by students Shahad Rashid Al Amri, Shaikha Khalid Al Mahrazi, and Mariva Ahmed Al Salmi and supported by two industry programmers. This year's hackathon focused on the role of AI and technology in urban planning, challenging participants to develop innovative, sustainable solutions aligned with Oman Vision 2040. GCET's strong performance highlights the department's commitment to preparing students for real-world challenges through innovation and collaboration.

We sincerely thank the Ministry of Housing and Urban Planning for supporting youth innovation and creating opportunities that truly inspire the next generation of urban planners.







Mrs. Shamsa Mohammed
Al-Mahrooqi
Activities Officer

GCET, with its five staff members and seven students, successfully launched its first Exchange Program with a visit to Persian Gulf University (PGU) in Iran. The delegation engaged in academic discussions, cultural activities, and networking sessions with PGU's faculty and students. The visit provided a meaningful opportunity to explore the Iranian education system and gain firsthand exposure to regional innovation practices. This milestone initiative strengthened cross-cultural understanding and opened doors for future collaboration between the two institutions.

Meanwhile, 12 students and 3 staff members participated in an Exchange Program to the University of the West of England (UWE) in the UK. The group attended lectures, explored university facilities, and took part in activities focused on innovation and entrepreneurship. The program offered a rich learning experience and strengthened institutional ties.

These Exchange Programs reflect GCET's ongoing commitment to global learning, cultural understanding, and academic excellence.

Global Exchange Experience







Ms. Balquees Al Shaqsi Assistant Professor

In September 2023, I embarked on a transformative journey to pursue my MSc in Electronic and Electrical Engineering at the University of Sheffield, UK—an opportunity made possible through a valued scholarship. This milestone not only marks a significant academic achievement but also a moment to reflect with heartfelt gratitude on the unwavering support I received from my colleagues and Head of Department in the Electrical and Electronic Engineering Department at Global College of Engineering and **Technology** (GCET), where I served as a demonstrator.



A Journey of Gratitude and Growth: From GCET to the University of Sheffield



Right from the start of my professional journey, the EEE Department has been a constant source of guidance, encouragement, and academic growth. The dedication of the faculty, the supportive work environment, and the continuous motivation I received all played a vital role in preparing me for postgraduate studies abroad.

Studying at the University of Sheffield—a leading institution renowned for its engineering programs—has been an enriching experience. It has provided me with advanced knowledge, exposure to global research, and the chance to work alongside international scholars and engineers. The transition was made smoother thanks to the solid foundation I developed during my time at GCET, for which I am sincerely thankful.

Now, as I take on new responsibilities as an assistant professor, I carry with me not only academic learning but also the values, work ethic, and vision instilled by my department. I hope to reflect these qualities in my teaching, research, and service to the engineering community.



To all the mentors and colleagues at GCET who supported and encouraged me along the way—thank you for being a part of this journey.

GCET Football Team Shines in Regional and International Tournaments

The football team of the Global College of Engineering and Technology (GCET) has, once again, demonstrated its sporting excellence by securing a second place in the highly competitive 2025 Ramadan Colleges Tournament, hosted by the Arab Open University. The tournament concluded on 25th March 2025, and GCET's performance was nothing short of outstanding.

In addition to their overall impressive team placement, GCET players earned individual awards of Top Scorer and Best Goalkeeper, which are testaments to the skill, dedication, and teamwork that define GCET athletics.





In another international event, GCET extended its support to the GCET-sponsored Oman football team, which secured second place in the Aviation Football Cup (AFP) 2025, held in Ayanapa City, Cyprus. The college is immensely proud to have supported the team in this prestigious tournament, further strengthening GCET's commitment to nurturing talent and promoting sportsmanship on a global stage.





These achievements reflect the college's growing reputation in the sports arena and its unwavering support for student and national athletic development.

Congratulations to all the players and coaches for their hard work and success!



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