



KCG

COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS



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EDITORS' NOTE

Dear Reader,

Action springs not from thoughts, but from a readiness for responsibility.

The academic sessions for this year kick-started in July. Faculty Development Programmes & Student Orientation & Wellness programmes organised, prepared both the teachers and students to contribute responsibly throughout the year.

Inauguration of Biogas Plant was the prime event for the month which demonstrated our commitment to social responsibility and contribution to sustainability.

We have received many awards and accolades as usual, reiterating the fact that we provide holistic and quality education.

Wishing all students and faculty a great academic year.

Happy Reading.

EDITORS:

Dr. R. Jaya

Associate Professor,
Department of English

Ms. Tephilla Joice P

Assistant Professor,
Department of Mathematics



Excellence in Education Award

Our Chairman, **Dr. Anand Jacob Verghese**, received the Excellence in Education Award from the World Malayalee Council, London. This accolade is given recognising his strategic leadership and pioneering efforts in advancing top-quality education.



Dataquest Excellence in Tech Education



The college received the Dataquest Excellence in Tech Education Award. The award was presented to our institute by **Mr. Ravneet Singh Bittu**, Union Minister of State for Railways and Food Processing Industries, at a grand ceremony held in New Delhi on 25th July 2024.

Emerging ISF Award

The College received the Emerging ISF Award for the year 2022-23. This accolade was conferred during the IETE Zonal Seminar and ISF Congress, held on 27th July 2024, by the Institution of Electronics and Telecommunication Engineers. Additionally, **Dr. Uma Kumari**, Associate Professor, Department of ECE was recognized as the Best IETE Students Forum (ISF) Coordinator.



Anna University Rank Holders

Fifteen students who secured ranks in the Anna University April/May 2023 examinations were honored by **Dr. Anand Jacob Verghese**, Chairman of HGI on 6th July 2024. Our esteemed Chairman congratulated the students on their incredible achievement and commended their determination, consistency, and hard work.



La Trobe University

7 outstanding teams from the college advanced to the Prototype Level at the Technology Infusion Grand Challenge Asia, conducted by La Trobe University, Australia. Teams have also received significant grant funds to transform their path-breaking innovations into working prototypes.

By moving forward in this prestigious international competition, our students will be working across cultures, and have the access to different perspectives and ideas through the mentoring and support that is offered as part of the program.



Eco Activist 2024

Dr. T.Anuradha, HoD - EEE has Received "Eco Activist 2024" Award from **Dr. V. Karthikeyan**, Chairman Institution of Engineers(India), TNSC. The award was presented in the presence of **Dr. R. Velraj**, VC, Anna University, **Dr. A. Sivathanupillai**, Chairman, NECCF, IE(I), TNSC at the inaugural function of Institution of Engineers (India)(IEI) - National Environment Climate Change Forum(NECCF), on 13th July 2024 at Centre of University - Industry Collaboration, CEG Campus, Guindy, Anna University.



Memorandum of Understanding

Hindustan Group of Institutions (HGI) signed a Memorandum of Understanding (MoU) with Thejo Engineering Limited, initiated by the Department of Mechanical Engineering on 17th July 2024. Our esteemed Chairman **Dr. Anand Jacob Verghese** & **Mr. Manoj Joseph K**, Managing Director, Thejo signed the MoU, which is aimed at collaborative research in the fields of Polymer Science, Rubber Technology and Industrial Consultancy by facilitating certification programmes, faculty internships, student projects, as well as internship and placement opportunities.



Education Session

Department of Aeronautical and Aerospace Engineering FDP on Advanced Techniques in Wind Tunnel Testing

A Five-Day Faculty Development Program focusing on Advanced Techniques in Wind Tunnel Testing was organised from July 8th to 12th 2024. The program provided participants with cutting-edge knowledge and hands-on experience in this specialized field. Faculty members delved into the intricacies of aerodynamics, experimental methods and the latest technological advancements in wind tunnel testing.



Autonomous Drone Development Competition ADDC –2024

In association with SAE India Southern Section, the college hosted the second edition of the Autonomous Drone Development Challenge (ADDC) on 19th and 20th July 2024. The event saw registration from 47 teams, comprising around 470 students from various parts of India. A total of 43 teams with 350 participants and 22 faculty advisors attended the event. In the finals, Team Aeroclub from N.M.A.M, Karnataka, won the top prize overall. Teams from KLE Technological University and DART of Amrita Chennai campus secured the second and third prizes, respectively. Team Aerial Ace from Easwari Engineering College received the Best Design Report award, while MVSR College won the Best Technical Presentation category. The Chennai Institute of Technology, Chennai, was awarded the Best Payload Dropping System, and TKM College of Engineering received the Best Innovative Design Award. KCG College of Technology also celebrated a victory, securing third place in the Best Innovation category.



Guest Lecture on Wind Energy Technology



Commemorating Dr APJ Abdul Kalam Memorial Day a Guest Lecture on Wind Energy Technology was held on 26th July 2024. **Dr Kumaravel Rathinavel**, Managing Director, DEUTSCHE Windguard India was the resource person.

Industrial Visit

Final year students from the department visited the Indian Air Force Station in Tambaram on 24th July 2024. Air Force officials conducted a seminar detailing the various activities carried out by the IAF and the career opportunities available. The students also visited helicopters, fixed-wing aircraft, fire safety facilities, and the Air Traffic Control. They explored various types of defense aircraft and their functions, with **Mr. Rahul** from the IAF guiding them throughout the visit.



Department of Computing Sciences (CSE, AI & DS, IT)

FDP on Immersive Innovation in Digital Education using AR/VR

An enlightening five-day Faculty Development Program on Immersive Innovation in Digital Education using AR/VR, powered by TANSAM took place from 8th to 12th July 2024.

Throughout this transformative event, members of faculty delved into the advanced realms of Augmented Reality and Virtual Reality. The program encompassed hands-on workshops, insightful sessions with industry experts and collaborative projects, all designed to enhance our digital education capabilities.



Department of Electronics and Communication Engineering

FDP on IoT and Semiconductors – Synergies and Future

A 5 – Day FDP on IoT and Semiconductors – Synergies and Future was organized from 8th to 12th July 2024. This FDP aimed to enrich engineers, architects, and individuals involved in research and development activities, including planners, decision-makers, academicians, and research scholars, with research literacy in general and recent trends in scientific and technical communication in particular.



Department of Mechanical Engineering

Technical talk on Aluminum Manufacturing process in ALBA

In association with IQAC, a guest lecture on "Aluminum Manufacturing Process in ALBA" was organized on 25th July 2024. **Mr. A. Gobi Dass**, Technical & Training Head at ALBA, Bahrain, was the resource person. **Mr. Dass** delivered an insightful talk on the aluminum manufacturing process, with a focus on the casting process used to produce aluminum slabs.



School of Fashion Technology

Madras Couture Fashion Week – Season 10

Students from the department presented their collection at Madras Couture Fashion Week on 21st July 2024. It was an excellent platform to showcase their talents alongside professional designers, brands and boutiques.

Our students were praised for their creative collection, "The Artistic Symphony," which was inspired by the paintings of famous artists.



Department of Research & Consultancy

FDP on Effective Proposal Writing

In association with IQAC and IPR Cell, a five-day faculty development program was organised from July 2nd to 6th 2024, that focused on effective proposal writing for extramural funding and the patentability of ideas and designs. The sessions covered a range of topics including identifying funding opportunities, crafting compelling proposals, understanding the patent application process and strategies for protecting and commercializing innovative ideas. Expert speakers and experienced professionals from academia and industry led the sessions, providing valuable insights and practical tips.



Faculty Affairs

Orientation cum Faculty Development Program on Teaching-Learning, Examination & HR Practices

From July 8th to 12th July 2024, KCG Tech hosted a comprehensive Orientation cum Faculty Development Program on Teaching-Learning, Examination, and HR Practices for new recruits. The program began with an inaugural session led by **Dr. Prabhakaran G**, Dean of Academics, & **Dr. Muthukannan M**, Principal, who extended best wishes. Presentations included academic regulations, digital twin solutions by **Mr. Gopala Naidu** and team, accreditation and rankings by **Dr. S. Sadasivam**, outcome-based education by **Dr. Rajeev Sukumaran**, HR policies by **Mr. Issac Samala Gerard**, innovative teaching methods by **Dr. Swarnalatha**, effective e-learning tools by **Mr.S.Venkatramanan**, and quality in teaching by **Dr. Prabhakaran**. The final day featured examination processes by **Dr. M. Geethalakshmi**, research practices by **Dr. Deepa Jose**, and counseling practices by **Ms. D. Revathy**. Certificates were distributed by the Principal and Dean of Academics, and the program received high praise from attendees.



Healing the Mind, Body and Breath

Mr. TR Prabhuram, a distinguished Yoga Therapist from VeYoga Healing Centre, conducted an enlightening session for our staff on healing the mind, body and breath through the power of yoga on 15th July 2024. He introduced various yoga techniques aimed at enhancing overall well-being, emphasizing the harmony between mental clarity, physical strength and controlled breathing. By the end of the session, our staff gained a deeper understanding and experienced the transformative effects of yoga firsthand.



Imparting UHV-A Student-Centric Approach

On 16th July 2024, the Faculty Affairs organized a seminar on "Imparting UHV-A Student-Centric Approach." The resource person was **Dr. Sumathi**, Associate Professor of Mathematics at Sairam Engineering College and Regional Coordinator of UHV provided an overview of the UHV syllabus, emphasizing the core principles of universal human values, and highlighted the importance of conducting interactive sessions.



Institution's Innovation Cell

Innovation & Entrepreneurship Training and Exposure Visit

The Two-Day Innovation & Entrepreneurship Exposure Visit Cum Training Program was held on 25th and 26th July 2024, under the Mentor-Mentee Scheme for the academic year 2023-2024. This event brought together students and faculty from various mentee institutions to learn about creating sustainable startups, intellectual property rights (IPR), technology transfer, government support, funding opportunities, and the importance of maintaining innovation repositories.



Orientation Program – LES

The Orientation Program for Lateral Entry students for the academic year 2024 was held on 26th July 2024. The Principal, Dean, and Heads of various departments welcomed the new students to KCG Tech and extended their best wishes.





Ys Service Club of Karapakkam, Chennai and YMC of KCG College Youth



Inauguration of Biogas Plant

The Biogas Plant at KCG Tech, inaugurated by **Dr. Anand Jacob Verghese**, Chairman of the Hindustan Group of Institutions, stands as a testament to our commitment towards clean and renewable energy. This innovative facility, with its 15 cubic meter anaerobic digester, processes 100 kg of kitchen waste daily, producing 10-12 cubic meters of biogas, equivalent to 4-5 kg of LPG. By reducing pollution in water and soil and decreasing landfill usage, the plant contributes significantly to environmental protection and aligns with the Sustainable Development Goals (SDGs). This pioneering project represents a significant leap towards a sustainable and environmentally conscious future, showcasing KCG Tech's unwavering commitment to sustainable practices and efforts to achieve a negative carbon footprint.



Kargil Vijay Diwas – War Victory Memorial Day



26th July 1999, marks a victory day for our nation in the Kargil War through Operation Vijay, where the region of Kargil in Jammu and Kashmir was secured from enemy forces. The conflict resulted in the loss of over 527 Indian soldiers and more than 3,000 Pakistani soldiers, with many more casualties reported. To commemorate this victory, the Ys Service Club Karapakkam and the Y's Men Club of KCG College Youth organized a tribute to the war martyrs. This tribute included lighting candles, observing a one-minute silence, and holding an awareness event for the youth.



Social Awareness Campaign on the Energy Conservation & Energy Efficiency



The energy conservation and energy efficiency social awareness campaign organized on 26th July 2024. **Mr. G. Ramadoss**, Assistant Executive Engineer/DSM at TANGEDCO HQ Chennai, enlightened the audience on the necessity of conserving energy and various methods to achieve it. Following the seminar, student volunteers from Y's Men Club of KCG College Youth, cadets from KCG NCC Company, and volunteers from KCG NSS participated in a public campaign in Karapakkam. The volunteers enthusiastically marched through the streets of Karapakkam, propagating the need to conserve electricity for future generations. The rally was a successful attempt to create public awareness about conserving energy.





Two-day national level SAEISS organised

The KCG College of Technology, Chennai, The Department of Aeronautical and Aerospace Engineering in association with SAE India Southern Section, hosted the two-day national-level SAEISS -Autonomous Drone Development Challenge (ADDC) 2024. Anand Jacob Verghese, chairman of Hindustan Group of Institutions, and Annie Jacob, director KCG college of Technology, addressed the audience. The event was inaugurated by R Rajendran, director of Air Safety, DGCA, Southern Region, Chennai, along with R Rajendran, chairman of SAEISS, and M Muthkannan, principal of KCG College of Technology. K Vijayaraja, HoD, Aeronautical and Aerospace Engineering, welcomed the attendees. *TNIE* was the print partner.

Publication in SCI Indexed Journals - July 2024

| Authors | Journal Name | Article Title | Impact Factor | ISSN | Indexing |
|--|--|--|---------------|-----------|---|
| Dr. Prabhakaran G, Dean Academics & Prof., Dept of Mech | Journal of Inorganic and Organometallic Polymers and Materials | Influence of Modified Nanosilica on the Performance of NR/EPDM Blends: Cure Characteristics, Mechanical Properties and Swelling Resistance | 4.19 | 1574-1451 | SCI, Anna University Annexure I, Q2 Journal |
| Dr.Panneerselvam R G, Prof., Dept of FT | Tekstil Ve Konfeksiyon, E.U. Printing And Publishing House. | Assessing the Height, Width and Other Parameters of Elliptical Yarn Cross-Section Through the Thickness of Orthogonal Fabric | 0.7 | 1300-3356 | SCI, Anna University Annexure I, Q3 Journal |
| Dr. A. Sureshkumar, Asst. Prof.,(SG) Dept of Aeronautical | Journal of Applied Fluid Mechanics, Isfahan Univ Technology | Experimental Investigation on Performance of an Arc Transverse Injection in a Supersonic Combustor Flow | 1.1 | 1735-3572 | SCI, Anna University Annexure I, Q3 Journal |

14 papers got published & Indexed in Scopus during July 2024

Funded Proposals

| Name of Faculty | Funding Agency | Title | Amount Sanctioned | Duration |
|--|----------------|--|-------------------|----------|
| PI – Dr M. Arulprakasajothi Co- PI Dr M Muthukannan | AICTE ATAL | Engineering Solutions for Sustainable Future: Uniting Disciplines to Tackle Carbon Footprint Reduction | Rs. 3.5 Lakhs | Six Days |



CAMPUS FACILITIES



DST Supported FIST Lab



Car Simulator



Gymnasium



Aero Hangar



Link Flight Simulator



Bosch Certified Training Centre



NCC



Horse Riding



Inferno Racing



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KCG Nagar, Old Mahabalipuram Road,
Karapakkam, Chennai - 600 097.
www.kcgcollege.ac.in