



KCG

COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS



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EDITORS' NOTE

Dear Reader,

February month was a way more productive month for KCG Tech as the institution was recognized as one of the Top Tech Enabled Institutions. Furthermore, the laurels brought by our hackathon competition winners, NCC cadets and sportsmen added feathers to our cap. All student projects focused on realizing UN Sustainable Development Goals in terms of innovation on designing ecofriendly products, water conservation, climate change and good health. All our activities and projects are centered on achieving sustainable future. Read and experience our journey towards sustainability.

Happy Reading !!!

Campus
Diary
2024

EDITORS:

Dr. R. Jaya

Associate Professor,
Department of English

Ms. Tephilla Joice P

Assistant Professor,
Department of Mathematics

DataQuest CMR - Top Tech-Enabled Institutions

The College has been ranked amongst the Top Tech-Enabled Institutions in the country by DataQuest- CMR as part of the Digital Index Survey 2023! We are ranked as the #1 Tech Enabled T- School in Chennai.



KCG NCC Company – Scripting History

KCG NCC Company has won the overall 1st place at the STC Theaga Fest 2024, conducted by 1 TN Battalion NCC Unit facilitated by Sir Theagaraya College. Our heartiest congratulations to the NCC cadets for this monumental achievement.



Outstanding Innovation - National Technical Textiles Mission (NTTM)

Samyuktha S & Subha K, of 3rd year, School of Fashion Technology mentored by **Dr G Mohamed Zakriya** won 1st Rank, for outstanding innovation in the Hackathon, organized by the National Technical Textiles Mission (NTTM) from 26th to 29th February 2024, as a part of the Bharath Tex 2024 - Global textile expo. The duo were awarded for their Project Idea, "JUTE-BANANA-COTTON FIBRE REINFORCED NONWOVEN COMPOSITES THERMAL INSULATOR". The project has been recommended for funding of upto Rs. 50 Lakhs under the GREAT funding scheme.



Leading the Charge of Sustainability

Shaik Althaf, 3rd Year, EEE & **Nafisa B**, 3rd Year, Aerospace Engineering won the 1st place with a prize money of INR 1 Lakh at the International Water Conclave Shillong 2024 conducted by Government of Meghalaya. They received the award from the Hon'ble **Conrad Sangma**, Chief Minister of Meghalaya.



Innowel - National Level Hackathon

Mohamed Shuhail G & Mudhassir Habeeb KM of 2nd year, ECE and **Rithika SK & Iyaad Luqman K** of 1st year CSE won 2nd Place at SVCE's NATIONAL LEVEL HACKATHON "INNOWEL" THE THIRD EDITION OF I-CUBE.



VISAI 2024

Nitisri T S & **Shyamili R** of Final year, CSE and **Abishek J A** of 3rd year ECE represented the team OPTICOPS and won 2nd Prize with a cash prize of Rs.6,000 at 14th International Project Competition and Exhibition VISAI 2024

Team OPTICOPS



Abishek J A
III Year, ECE



Nitisri T S
IV Year, CSE



Shyamili R
IV Year, CSE

SAE- National Level Bicycle Design Competition

Mukesh G, Rahul David S, Shaik Kameel, Bala Subramani M & Naveen Raj Y of 3rd year Automobile Engineering and **Nirmala Devi M & Mohana Priya M** of 3rd year, CSE represented the Team B Riders and won the Second prize under the category Best Maneuverability in the SAE- National Level Bicycle Design Competition.



Shristi - Best Project Award



Nitisri T S & **Shyamili R** of Final year, CSE and **Abishek J A** of 3rd year ECE represented the team OPTICOPS and won 1st Prize in Best Project Award, with a cash prize of Rs.12,000.

Sports Achievements

KCG Tech Champ Goes Global



Mohitha R T, our sports champion from the Department of Aeronautical Engineering has won the Bronze Medal at the World Women's Snooker Championship held in Golem, Albania.



Asmithaa M, 3rd Year student of the Department of Aerospace Engineering won the Runner Up in the Under 21 Women Lawn Tennis Tournament at the Chancellor's Trophy organised by Hindustan Institute of Technology and Science on the 10th & 11th of February 2024.

KCG Technology Incubation Centre

Illumine Industries Private Limited (Illumine-i), a sustainable design and engineering firm co-founded by KCG Tech alumnus **Mr Nithish Saram**, has raised Rs.17 crore in its Series A round from Anicut Capital. Founded in 2015, Illumine-i was mentored and supported by the KCG Technology Incubation Centre (TBI) to achieve their vision of designing low voltage power plants. Over the years, the company has become the leading player in its category, offering structural and electrical engineering expertise for power plants, energy storage systems, and distribution components. Beyond the power sector, Illumine-i extends digital modeling, MEP engineering & project management expertise to the Architecture, Engineering and Construction (AEC) sector.



Memorandum of Understanding

College has signed a MoU with Tamilnadu Technology (iTNT) Hub on 24th February 2024. The signing took place at UimageTN, with **Ms Vanitha Venugopal**, CEO of iTNT, representing the organization. This strategic partnership with India's first Emerging and Deep-Tech Innovation Network will enable the development of research & innovation solutions needed for the industry, promote entrepreneurship, and encourage the transfer of knowledge and technology.



Department of Aeronautical & Aerospace Engineering

Nurturing Entrepreneurship and Innovation

On 9th February 2024, **Dr A Sivathanu Pillai**, the Father of Brahmos Aerospace and Founder-CEO of BrahMos Aerospace Private Limited, delivered an enlightening seminar at the institute, focusing on "Nurturing Entrepreneurship and Innovation." **Dr. Pillai**, a recipient of both the Padma Shri & Padma Bhushan awards, delved into the Indian space program's evolution from its nascent stages to its current remarkable achievements, underscoring the abundant opportunities awaiting young, ambitious students in the startup sphere. The session witnessed active student engagement, with queries ranging from space technology intricacies to governmental support for entrepreneurship. Undoubtedly, the event proved to be immensely beneficial and informative for both faculty & students.



Seminar on Aircraft Design, Principles & Philosophies

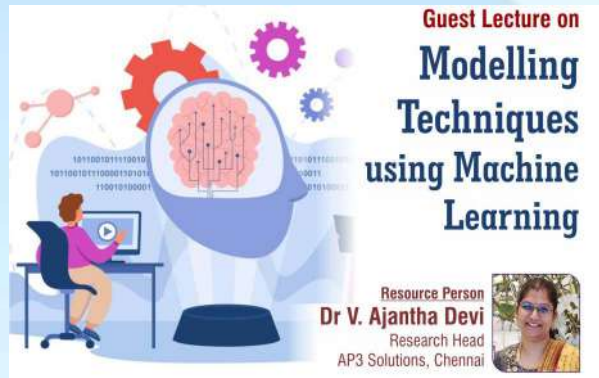
On 20th February 2024, a seminar on Aircraft Design, Principles and Philosophies was conducted. **Mr Sundaresan Poovalingam**, a Distinguished Technologist, Infosys, Bengaluru was the resource person. During a seminar Mr. Sundaresan Poovalingam, delivered a comprehensive discussion on various stages involved in aircraft design. Throughout the presentation, attendees were provided insights into the intricacies of designing aircraft, spanning from conceptualization to implementation. Additionally, Mr. Poovalingam highlighted real-world examples of structural failures within aircraft, shedding light on the importance of rigorous design and testing processes in ensuring the safety and reliability of aviation systems. His expertise and experience in the field provided valuable perspectives for all participants, offering a deeper understanding of the complexities and challenges inherent in aircraft design and engineering.



Department of Artificial Intelligence & Data Science

Guest Lecture on Modelling Techniques using Machine Learning

On 9th February 2024, the department conducted a Guest Lecture on Modelling Techniques using Machine Learning. **Dr V Ajantha Devi**, Research Head, AP3 Solutions, Chennai was the resource person.



Department of Automobile Engineering

Guest Lecture on Transformations in Mobility from Traditional to Advanced

Guest lecture on Transformations in Mobility - From traditional to Advanced was conducted on 24th February 2024. The resource person **Mr Sivaraman Sankar**, Manager - Energy Management & Aerothermal Engineering from FCA Engineering Pvt.Ltd, Chennai delivered the lecture highlighting differences between traditional mobility and advanced mobility.



Department of Civil Engineering

Hands on Training: Exploring the World of Civil Engineering

Hands on Training: Exploring the World of Civil Engineering for Central Polytechnic College Students was conducted on 19th February 2024.



Department of Computer Science & Engineering

Tech Talk on Human Aspects of Cyber Security

INNOCOM Club in association with the International Affairs Cell organized an interactive Tech Talk titled "Human Aspects of Cyber Security" on 13th February 2024. **Dr Panagiotis Andriotis**, School of Computer Science, University of Birmingham, U.K. was the resource person. **Dr. Andriotis** delved into the intricate interplay between human psychology and cybersecurity through an analysis of social engineering techniques such as phishing and baiting, helping our students gain insights into the sophisticated methods employed by cyber adversaries to exploit human vulnerabilities. Furthermore, he explained cognitive biases and behavioral tendencies that render individuals susceptible to manipulation in the digital realm. Emphasizing the need to cultivate a cybersecurity-centric culture within organizations, he underscored the significance of effective communication and comprehensive training which are necessary for engineers to integrate an understanding of human dynamics alongside technical proficiency to effectively mitigate cyber risks and protect digital ecosystems. The talk concluded with a lively discussion with the students involved in research projects, where Dr. Andriotis addressed their queries regarding the various aspects of cybersecurity.



AI: Is that a Black Magic?

In association with Innocom Club, a Tech Talk on AI: Is that a Black Magic? was conducted on 23rd February 2024. **Dr Sudarsun Santhiappan**, Chief Scientific Officer Buddi, AI was the resource person. The speaker gave an overview of the historical journey of AI, illustrating its remarkable growth and the pivotal role it plays in contemporary society. He emphasized the necessity for individuals to possess a refined skill set in AI and the importance of applying these skills effectively.



Workshop on AR/VR

Workshop on AR/VR was conducted on 24th February 2024. **Ms Swethasree S**, IITM Research Scholar – AR/VR Specialist, CSE Alumni, Class of 2023 was the resource person.



Workshop on Ignite Minds to App Design

Workshop on Ignite Minds to App Design was conducted on 24th February 2024. **Mr Alex John M**, Solution Architect (UI/UX), HCL Technologies was the resource person.



Department of Electronics and Communication Engineering

Seminar on AI & Machine Learning: Advancements & Applications

In association with Institution of Electronics and Telecommunication Engineers the department conducted a Seminar on AI & Machine Learning: Advancements & Applications on 24th February 2024. **Dr K Aswineshadri**, Head of Embedded Practice, Deputy General Manager, Motherson Technology Services, Chennai was the resource person.



Seminar on Best Techniques for Successful Job Interview

A seminar on Best Techniques for Successful Job Interview was conducted on 27th February 2024. **Ms S Mythilisha**, Senior Software Engineer, Avasoft Private Limited and Alumni of Class 2016-2020 was the resource person.



Department of Information Technology

Inauguration of Malala Yousafzai – Women's Club

Inauguration of the club took place on 23rd February 2024. Chief Guest, **Ms Bhanumathy Manoharan**, Principal, Bharath Dass Matriculation School, Perungudi, Chennai delivered a talk on "Importance of Women's Education". Sharing her own experiences, she highlighted the vital role education plays in empowering women. **Ms Amirtha S Menon**, a Communications and Branding Specialist at Indium Software Private Ltd., spoke about the importance of gender equality for societal well-being. Both the speakers emphasized the need for basic education for girls in every family, seeing it as a crucial step towards the holistic development of the nation and its communities.



Seminar on Machine Learning: Its application

Seminar on Machine Learning: Its application was conducted on 29th February 2024. **Mrs Abinaya**, Livewire solutions, Chennai was the resource person.



Guest Lecture on Digital Therapeutics

On 24th February 2024, the department organised a Guest Lecture on Digital Therapeutics: Transforming the Future of Healthcare. **Dr D Vijendra Babu**, Hon. Secretary, IETE Chennai Centre, Department of Embedded Technology, School of Electronics Engineering, VIT was the resource person.



Department of Mechatronics Engineering

FDP on Integration of Automotives and Smart Mechatronics System for Sustainable Mobility

Faculty Development Programme on "Integration of Automotives and Smart Mechatronics System for Sustainable Mobility" was organized by the Departments of Mechatronics Engineering and Automobile Engineering from the 31st of January to 4th February 2024. The programme provided valuable insights into the integration of automotive systems and smart mechatronics for sustainable mobility by bringing together distinguished speakers, industry experts & academicians to foster knowledge exchange and collaboration in the fields of automobile and mechatronics engineering. The 5 Day Faculty Development Programme provided a comprehensive overview of the integration of automotives & smart mechatronics systems for sustainable mobility. The diverse range of topics covered by experienced industry professionals contributed to the enrichment of knowledge among the faculty members, fostering a deeper understanding of the latest trends and innovations in the automotive sector.



Workshop on Entrepreneurship Skill, Attitude & Behavior Development

Workshop on Entrepreneurship Skill, Attitude & Behavior Development was conducted on 24th February 2024. **Dr Saravanan R**, Professor & Head, Dept of Industrial Engg, SSE, SIMATS was the resource person.



Department of Physical Education & Sports

Flexifit Physiotherapy & Sports Injury Clinic

In association with Flexifit Physiotherapy & Sports Injury Clinic the department organized Musculoskeletal Screening & Fitness Testing for KCG Tech Athletes on 2nd February 2024 as part of KCG Tech's initiatives to promote the Fit India Movement spearheaded by the Government of India. The objective of this camp was to screen athletes for musculoskeletal pain or discomfort and to assess their physicality, strength & endurance. This was followed by a hands-on session by **Dr B Priyanka**, MSPT, MIAP, Musculoskeletal & Sports Physiotherapist where highly effective ergonomic, preventive and therapeutic exercises were taught to our athletes to improve their mobility and prevent sports related injuries. Dr B Priyanka also interacted with our athletes and addressed their queries and concerns regarding physical fitness and maintaining musculoskeletal health.



School of Fashion Technology

Workshop on Industrial Engineering Techniques & Applications in the Garment Industry

A Workshop on Industrial Engineering Techniques & Applications in the Garment Industry led by resource person **Mr Esakkimuthu.K**, Implementation Officer, Skillift Consulting, Tiruppur was conducted from 31st January to 2nd February 2024 with the aim to equip participants with the knowledge and skills necessary for optimizing processes, enhancing efficiency, and improving overall productivity in garment manufacturing. This intensive 3-day workshop covered the various aspects of garment manufacturing, including an introduction to industrial engineering principles, work study techniques, and time and motion studies. Participants learned about effective production planning, bottleneck management, and the application of lean manufacturing principles like Kanban. Practical sessions, such as method study evaluation and work station layout, were conducted to reinforce the theoretical concepts.



Centre for Transformational Leadership

Seminar on Student's Design Thinking Journey: From Ideas to Impact

A Seminar on Student's Design Thinking Journey: From Ideas to Impact was organised on 24th February 2024. **Ms Vakkalagadda Drishti Rao**, III year, CSE & Secretary - CTL shared her insights and experiences with second year CTL members. Drishti shared her firsthand experience from the CTL challenge, offering practical insights into the design thinking process. The content covered various aspects, including a comprehensive overview of design thinking methodology, guidance on problem statement framing, brainstorming techniques, ideation, prototyping, and presentation skills. The session was interactive, with Drishti actively engaging the audience by presenting real-world problems for students to practice framing as design thinking challenges. A dedicated feedback session allowed students to share their thoughts & ask questions, fostering open discussion. Overall, the session received positive feedback, with students finding it valuable and beneficial for their participation in the upcoming 2024 Design Thinking Challenge.



Umanage TN 2024

Team KCG had the opportunity to attend Umanage TN 2024, Asia's largest summit on technology and innovation from 23rd to 24th February 2024 at Trade Centre, Chennai. Our students experienced the first-hand exciting new technologies developed by leading start-ups, harnessing the power of Emerging Technologies for productivity and sustainability and fostering innovations to propel TamilNadu towards its trillion-dollar dream.



Visit to Schneider Electric Innovation Yatra



Second and Third year students of Department of EEE visited Schneider Electric Innovation Yatra on 26th February 2024. To mark the 60th anniversary in India, Schneider Electric, a global leader in Energy Management and NextGen Automation solutions, has started Carbon Neutral Yatra to cover 60+ cities with a mission of imparting knowledge around technical advancements in IoT, Electricity 4.0, Digitization & Sustainability within the Energy Management and NextGen Automation Space. It aspires to simplify climate change for the masses by showcasing innovative solutions and create Greener Yodhas, the climate warriors of tomorrow.

Visit to CRP India Pvt. Ltd

Second and Third year students of Department of Mechanical Engineering visited CRP India Pvt. Ltd. on 22nd February 2024. They learned the process involved in the preparation of castings, right from raw material to the finished product.



Engenius'24

Engenius '24, the premier talent carnival for school students to express their talent and knowledge, was held on 3rd February 2024. A total of about 1100 students from 20 schools across Chennai participated in an array of cultural competitions, technical workshops and exciting events, displaying astonishing talent and enterprise. Our esteemed Chief Guest **Mr J. Angelo Irudayasamy**, Deputy Director, PTA, Directorate of School Education, distributed trophies and prizes worth INR 1 lakh to the winning students and teams, accompanied by **Dr. M. Muthukannan**, Principal KCG Tech & **Dr. G. Prabhakaran**, Dean, KCG Tech.



Founder's Memorial Day

Founder's Memorial Day held on 14th February 2024 in honour of our beloved Founder **Dr. K.C.G. Verghese** was a poignant event. The management, faculty and students paid homage to Dr.K.C.G.Verghese with several meaningful events in remembrance of his extraordinary life and pioneering work in the advancement of technical education in India.



Founder's Memorial Day



Medical Camp

NSS Unit of College conducted General Medicine, Dermatology & Gynaecology OBG. Doctors from Balaji Hospital & Medical College (Chrompet) conducted the camp on 14th February 2024.



Coding Contest

The INNOCOM Club of CSE Department, conducted a Coding Competition on 14th February 2024. Congratulations to

Winners : **Mr Lalith Prakash and Mr Ishwar R**, II Year CSE

First Runner Up : **Mr Logesh G and Ms. Mythili S**, II Year CSE

Second Runner Up : **Mr. Mohamed Ashik M and Mr. Adithya GV**, II Year CSE



Founder's Memorial Day



Y's Service Club of Chennai, Karapakkam & Y's Men Club of KCG College Youth Compassion, Care, Catalyze

On the 11th and 12th of February 2024, members of the Y's Men Club of KCG College Youth and the Y's Service Club of Chennai, Karapakkam, paid visits to the Old Aged Orphans at Kaakum Karangal, participated in Beach Cleaning at Palavakkam, and engaged with students of Panchayat Union Primary School, Karappakam. Additionally, they distributed stationery items to the students.



Publication in SCI Indexed Journals - February 2024

Authors	Journal Name	Article Title	Impact Factor	ISSN	Indexing
Dr Cloudin S, Prof., Dept of Computer Science & Engg.,	International Journal of Communication Systems,Wiley	Driver behaviour prediction and enhanced ad hoc on-demand distance vector routing protocol in VANET	2.8	1074 -5351	SCI, Anna University Annexure I, Q2 Journal
Dr M. Arulprakasajothi, Prof., Dept. of Mechanical Engg.,	Journal of Energy Storage, Elsevier.	An experimental investigation on winter heat storage in compact salinity gradient solar ponds with silicon dioxide particulates infused paraffin wax	9.4	2352 -152X	SCI, Anna University Annexure I, Q1 Journal
Dr B.V.Krishna, Prof., Dept. of Computer Science & Engg.,	Journal of Cleaner Production, Elsevier	Optimizing E-waste management: Deep learning classifiers for effective planning	11	0959 -6526	SCI, Anna University Annexure I, Q1 Journal
Seeniappan Kaliappan, Head & Prof., Dept. of Mechanical Engg.,	Environmental Science and Pollution Research, Springer.	Economic and life cycle cost analysis of building-integrated photovoltaic system for composite climatic conditions	5.4	1614 -7499	SCI, Anna University Annexure I, Q1 Journal

14 papers got published & indexed in Scopus during February 2024

H-Index has reached 30 during February 2024



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CAMPUS FACILITIES



DST Supported FIST Lab



Car Simulator



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NCC



Horse Riding



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