



Vol. No.2 | Issue No. 7 | July 2023

# Campus Diary 2023



## EDITORS' NOTE

Dear Reader,

Creating a niche in the realm of education in the form of rankings, awards & other accolades is a routine at KCG Tech. The July issue highlights the Anna University Rankings secured for academic performances, magazine rankings, recognition in AUAP and many more. They are the fruits of our dedication, hard work and perseverance that have reflected in the planning and implantation of our activities last academic year.

With the higher semester students coming back to campus after examination, the month of July marks the beginning of the new academic year 2023-2024. With the new leadership and new group of faculty joining the existing, KCG Tech has set the ball rolling by conducting faculty development programmes and orientation programmes for students. We resolve to continue the academic year with many more productive activities and also to set the bar a little high than the previous years to reach greater heights. We wish our students & faculty a great academic year.

We are extremely thankful for the positive feedback from the readers, including the parents of the forthcoming batch of students. Your feedback do encourage us to do better and therefore continue to support us.

Wish you all a Happy reading!

### EDITORS:

**Dr. R. Jaya**

Associate Professor,  
Department of English

**Ms. Tephilla Joice P**

Assistant Professor,  
Department of Mathematics

### CSR- GHRDC Engineering Colleges Survey Ranking 2023



The college is ranked 13<sup>th</sup> amongst the Top Emerging Engineering Colleges of Super Excellence across India and 6<sup>th</sup> amongst the Top Engineering Colleges in Tamil Nadu in the CSR- GHRDC Engineering Colleges Survey 2023 conducted by Competition Success Review in association with the Global Human Resource Development Centre.

### Association of Universities of Asia & the Pacific (AUAP) Membership

The college has become a member of the Association of Universities of Asia & the Pacific (AUAP). The AUAP is a significant platform to promote a culture of equality, innovation & research in the higher education sectors in Asia and the Pacific region. The membership will enable the institute to contribute towards shaping the outlook of higher education regionally as well as globally.

### Anna University Ranking - Academic Performance April-May 2022



The college is ranked 18<sup>th</sup> in Tamilnadu & 4<sup>th</sup> in Chennai under Non-Autonomous Affiliated Colleges in the Anna University Academic Performance April-May 2022. This ranking further establishes our position amongst the leading technical institutions in the state.

### Indian Institutional Ranking Framework (IIRF) Engineering Colleges Survey 2023

The college is ranked amongst the top engineering colleges in Tamilnadu & across the country by the Indian Institutional Ranking Framework (IIRF) Engineering Colleges Survey 2023.



## Indian Aerospace Faculty Leader Award

Institute of Astronautics & Aviation awarded Indian Aerospace Faculty Leader Award to **Dr Azad Ahmed**, Associate Professor, Department of Aeronautical and Aerospace Engineering.



## Ministry of Micro, Small & Medium Enterprises (MSME) Scheme

The Government of India has approved our innovative projects presented in Idea Hackathon 2.0 under the Ministry of Micro, Small & Medium Enterprises (MSME) Scheme. The projects that are approved are:

1. Design & Development of MI based Onion Cold System under Digital Architecture.
2. Eco-friendly & Sustainable Furniture.
3. Waste to Wealth Creation, Circular Solutions & Waste Management.



## IEEE Student Engineering Team Challenge 2023

Two teams from the college emerged victorious at the prestigious IEEE Student Engineering Team Challenge 2023, a global innovation challenge focused on providing a platform to showcase path-breaking new ideas by students with the goal to stimulate interest in the fields of Science, Technology, Engineering & Mathematics (STEM).

The first place was awarded to the team comprising **Doreen Belinta**, **Kavya T** & **Kavipriya M** of ECE for their project Aegistec-Mother's Care Shield, a revolutionary device, which allows pregnant women to monitor their child's foetal ECG.

The second place was awarded to the team comprising **Muskan P** (AI & DS), **Giridharan** (Aerospace), **Shaikh Altaf** (EEE) & **Belgin Jarosh** (IT) for their project on Controlling & Monitoring Carbon Emission using IoT & AI Models.



# Dr M Muthukannan assumes charge as Principal, KCG Tech



The Management, Staff & Students welcome **Dr M. Muthukannan**, who has assumed charge as the Principal, KCG College of Technology from the academic year 2023. **Dr M. Muthukannan** is a dedicated academician with over 22 years of experience in teaching field.

## Educational Sessions

### Department of Aeronautical and Aerospace Engineering Engineering Excellence Connect (Tech Pubs)

In association with Capgemini Engineering, the department organized an Engineering Excellence Connect (Tech Pubs) Program on 18<sup>th</sup> July 2023. **Mr. Rajendran R**, Senior Manager, EEC Program Champion- KCG Capgemini was the chief guest.



### Department of Artificial Intelligence and Data Science

## Talk on Usage of Predictive Analytics in the Industry

Orientation Programme for the academic year 2023-24 was organized on 17<sup>th</sup> July 2023 with an Expert Talk on 'Usage of Predictive Analytics in the Industry'. **Ms I Sarah**, Business Development Manager, Freshworks, was the resource person. The interactive session emphasized how predictive analytics, when paired with artificial intelligence, offers insights that are more accurate, therefore resulting in increased forecast accuracy & better informed decision-making.



### Department of Computer Science and Engineering Talk on March towards Excellence

An Orientation Programme for students was conducted with an expert talk on “ March towards Excellence”. **Mr Prashant Kumar**, Regional Accounts Manager, Finance Suite of Products, Zoho was the resource person.



### Department of Electrical & Electronics Engineering

# PDP on Recent Trends in Power System

A 5 Day Professional Development Programme on Recent Trends in Power Systems was organised from 24<sup>th</sup> to 28<sup>th</sup> July 2023. The intensive programme explored the explosion of renewable energy sources, the increase in the demand for electrical energy and several advantages of newer technologies such as reduced transmission losses, enhanced stability and sustainability.



### Department of Information Technology

# Talk on Career Awareness and Opportunities

Orientation Programme for the academic year 2023-24 was organized on 17th July 2023 with an Expert Talk on Career Awareness & Opportunities. **Ms.S.Nithya Kalyani**, Unity Developer, Augray Private Limited, Chennai was the resource person. The interactive session delved into the plethora of new career opportunities available to IT graduates as a result of the rapidly changing landscape of the Information Technology and the prevalence of emerging technologies including Artificial Intelligence, Data Science and several others.



# FDP on Application of Mathematics in Solving Engineering Problems

Internal Quality Assurance Cell and Department of Science and Humanities (Mathematics Division) organised a Five Day Faculty Development Program on 'Applications of Mathematics in Solving Engineering Problems' from 3<sup>rd</sup> to 7<sup>th</sup> July 2023 in hybrid mode.

Around 50 participants from various institutions in Tamil Nadu and other states like Andhra, Karnataka attended the FDP. **Dr. J Baskar Babujee**, Professor Mathematics, Department of Applied Science and Humanities, MIT Campus, Anna University; **Dr. Palaniappan Ramu**, Associate Professor, Department of Engineering Design, IIT, Madras; **Dr. J Dhalia Sweetlin**, Associate Professor, Department of Information Technology, MIT Campus, Anna University; **Dr. L Jones Tarcus Doss**, Professor & Head, Department of Mathematics, CEG, Anna University; **Dr. Muttan**, Former Professor, Department of Electronics & Communication Engineering, CEG, Anna University; **Dr. T Thyagarajan**, Emeritus Professor, Department of Instrumentation Engineering, MIT Campus, Anna University; & **Dr. Tanmay Sarkar**, Assistant Professor, Department of Mathematics, IIT- Jammu were the resource persons.



Offices of Student Affairs and International Students Services(OASIS)

**Centre for Transformational Leadership**

**Ideathon '23**

Ideathon '23, an innovation challenge and workshop, was conducted on 15<sup>th</sup> July 2023. An illustrious jury panel comprising **Dr. M. Vignesh Kumar**, Head- Project Development Cell & Assistant Professor (Sel Grade)- Department of Mechanical Engineering and KCG Tech alumnus **Mr. S. Bala Surya**, Founder & CEO- Sandbird R&D Pvt. Ltd. evaluated the innovative ideas and solutions presented by students and provided them with valuable guidance on how to improve and optimize their products and solutions. The participating teams greatly benefited from their interaction with the jury panel and gained tremendous insight into building an idea into a viable product



## Five Day Orientation & Faculty Development Program on OBE, Research and HR Practices

Five Day Orientation & Faculty Development Program on OBE, Research & HR Practices organized from 10<sup>th</sup> to 14<sup>th</sup> July 2023 was inaugurated by **DTM Saravanan Velrajan**, Chief Strategy Officer- Ginkos, India. **DTM Saro** emphasized the importance of restructuring the present engineering curriculum in a manner that enhances both theoretical knowledge along with practical skills, thereby assuring employability to young graduates of all disciplines. The in-depth program shed light on the basic principles of Outcome Based Learning (OBE) and the crucial steps through which it can be integrated into current teaching practices. The programme also aimed at familiarizing the new joiners the policies and activities of the institution.



### IQAC and IPR Cell

## Guest Lecture on Intellectual Property Management & Legal Aspects

A Guest Lecture on Intellectual Property Management & Legal Aspects by **Mr. Rahul Bagga**, Founder & Managing Director, Aumirah Registered Indian Patent & Design Agent, New Delhi, India was held on 24<sup>th</sup> July 2023. **Mr. Bagga** emphasized the need for businesses to effectively develop systems that track and records IP assets in a streamlined manner and to develop legal strategies that are aligned with the organization's overall product and growth goals.



### Lecture on Environmental Health & Risk Management

A Lecture on Environmental Health Inequalities led by expert speaker **Dr. Surindar Dhesi**, Senior Lecturer, Environmental Health & Risk Management, University of Birmingham, UK was held on 21<sup>st</sup> July 2023. **Dr. Dhesi** gave a deep insight into the vast differences in environmental exposures that exist between socioeconomic groups at the global, regional, and local level and provided recommendations to decrease environmental inequalities in urban areas.



### Lecture on the Basics of Nuclear Engineering

An Expert Lecture on the Basics of Nuclear Engineering led by **Dr. Roman Fomin**, PhD, Associate Professor, Nuclear Physics & Technology, National Research Nuclear University MEPI, Russia was held on 25<sup>th</sup> July 2023. **Dr. Fomin** provided students with a deep insight into the design and application of systems that make use of the energy released by nuclear processes.



### Silver Jubilee Alumni Meet

The Silver Jubilee Alumni Meet was held at Mirza Seminar Theatre on 15<sup>th</sup> July 2023. **Dr. Annie Jacob**, Director, KCG College of Technology presided over the event which witnessed enthusiastic participation from alumni members. Several of them shared memories and anecdotes from their college years while mentioning the indelible impact their time at KCG Tech has had in shaping their careers. The evening concluded with vibrant musical and dance performances by alumni.





## Rotaract Club

Uprising- An Orientation Program for the new student members of Rotaract Club was held on 7<sup>th</sup> July 2023. The first year student members were welcomed and were briefed on the various activities and scope of the club. **Rtr. IPP Roshithkumar. R** and **PDRR Solomon Victor** gave insights on the benefits of joining the club particularly the professional development and the opportunity to address the needs and concerns of the community.



## KCG NCC Company

### Annual Training Camp 2023 -KCG NCC Company

We are proud to announce that cadets of the KCG NCC Company completed the Annual Training Camp 2023 which was conducted by 1 (TN) NCC from 24<sup>th</sup> to 3<sup>rd</sup> July 2023. The following cadets were felicitated for their achievements during the camp:

Overall SW Senior: SGT Panthagani Bindu (IV Year, Fashion Technology)

Best Drill SD: 1st Place- CSUO Prakash Koundinyan G (IV Year, Mechanical Engineering)

3rd Place- SGT Erwin R (IV Year, Aerospace Engineering)

Best Drill SW: 3rd Place- LCPL Abinaya V (III Year, Aeronautical Engineering)

Kabaddi: 2nd Place- CSUO Prakash Koundinyan G (IV Year, Mechanical Engineering), CSM Karthik G (IV Year, CSE), LCPL Shibin M J (III Year, CSE)

Guard of Honour: CSM Karthick G (IV Year, CSE), CSUO Prakash Koundinyan G (IV Year, Mechanical Engineering), Cadet Anusuya M K (III Year, Aerospace Engineering), Cadet Shreya K S (III Year, Aerospace Engineering)





## Mobile App Club

The members designed images in groups as well as individuals using the mobile app designer [Snack.expo.in](http://Snack.expo.in).



## Robotics Club

The members were introduced to Tinker cad software and given opportunity to design a model, simulate the software to check the design and also modify wherever it was required.



## Drone Club

The workshop aimed to provide participants with hands-on experience in constructing and testing airfoil foam models, which are scaled-down representations of wing profiles used in aircraft design.



## Space Exploration Club

Webinar on “Small Satellites-Potential Applications” by DVA Raghava Murthy (Former Director, Earth Observations System, ISRO Headquarters) was conducted.

### Math Club

MATH PRO 2023 competition was conducted and totally 8 teams comprising three members each presented their projects. Prizes and certificates were distributed to the winners.



### AR Club

J A Abishek, 3<sup>rd</sup> year ECE enlightened the students about Types of AR, Vuforia SDK installation and provided hands on experience on marker based and markerless AR and Task for building app



### Programming Club

Club members were introduced to “Application Development and Libraries” using Python. Hands on Session on Covid Analysis & Tracker App was conducted.



### IoT Club

Hands-on Experience on ILED, Servo Motor and Ultrasonic Sensors implementation in Arduino; Blockly Level Code for IoT Processor-Application-Soil Moisture Sensor and Execution of C++ Code for LED, Servo Motor and Display Device was given.





## Dance Club

The dance club members participated in an audition & brought their own special talents and styles. The audition served as a venue to showcase the members wide variety of talents & love for dance.



## Heritage Club

Discussion on preparing a club magazine was carried out. A total of 7 chapters detailing the heritage spots visited by members along with some general & interesting facts were planned.

## Eco Club



ECO BAZAAR & E-ECO WORKSHOP were conducted. The bazaar was hosted with the intention of implementing the 3R Policy to reduce trash production in the environment. Students received instruction on trash minimization, segregation, reduction & recycling through the online programme offered by RUR Green Life Ltd. Additionally, the students were taught on how to make bio-enzymes for cleaning & bio-fertilizers for use in agriculture.

### English Literary Club

Debate on "Do Brands Rule Our Lives?" & a session on Stress Interview were conducted. It aimed to encourage critical thinking, foster debating skills & provide students with an opportunity to demonstrate their communication skills & ability to handle pressure.



### Fine Arts Club

An introduction on sacred geometry, tessellations, mandala art, zentangles, doodling etc was given to the students. A handout on circles, their terminologies & parts were given & students answered a quiz. Tessellated pictures were also given to them to understand the basic shapes which have been used to prepare the tessellations. With these basic information students were asked to prepare a concept & develop paper craft in half an hour's time.

These concepts when applied could help students to relax, refresh, think creatively & develop innovative products & art-forms.



### Quiz Club

Club members during their visit to Tamil Nadu Science & Technology Centre explored various halls of science, such as the Periyar Gallery, Transport Gallery, Hall of Nuclear Power Gallery, Defence Research, Life Science Gallery, Ramanujan Math Gallery, Elec. & Commn. Gallery, Innovation Hub Gallery, IT Gallery & Computer Corner, Ocean Gallery, Fun Mirrors Gallery, Heart Museum, India in Space & Edu SAT. Additionally, they had the opportunity to attend captivating shows at the Hybrid-Digital Planetarium, 3D Science Theatre & Science on a Sphere.



**Research Summary June 2023****Publication in SCI Indexed Journals**

<b>Authors</b>	<b>Journal Name</b>	<b>Article Title</b>	<b>Impact Factor</b>	<b>ISSN</b>	<b>Indexing</b>
<b>Dr. Anuradha Thangavelu,</b> Prof. & Head, Dept. of EEE	AUTOMATIKA, Taylor & Francis	An energy-efficient and reliable data gathering infrastructure using the internet of things and smart grids	1.79	0005-1144	SCI, AU Annexure-1, Scopus, Q2 journal
<b>Dr. V. Andal,</b> Chemistry - (S&H)	CHEMICAL PAPERS, Springer	Fixed-bed column studies for the elimination of Cd <sup>2+</sup> ions by native & protonated watermelon rind.	2.146	0366-6352	SCI, AU Annexure-1, Scopus, Q2 journal

**11 papers got published and indexed in Scopus during July 2023**

**KCG Faculty - Doctorate Completed Details**

<b>Ph.D. Scholar</b>	<b>Thesis Title</b>	<b>Date of Viva- Voce</b>	<b>University</b>
<b>Mr Jesudass Thomas S,</b> Mechanical Engineering	Experimental Studies on Performance Improvement by Mechanical Textured Cutting Tool Under Dry Truning	21-07-2023	Anna University
<b>Mr Chandra Mohan R,</b> Mechanical Engineering	Experimental Investigation on Energy Conservation in Vapour Compression Refrigeration System Using Efficient Vapour Injection Technique	28-07-2023	Anna University





# CAMPUS FACILITIES



**DST Supported FIST Lab**



**Car Simulator**



**Gymnasium**



**Aero Hangar**



**Link Flight Simulator**



**Bosch Certified Training Centre**



**NCC**



**Horse Riding**



**Inferno Racing**