



# KCG

COLLEGE OF TECHNOLOGY  
A unit of Hindustan Group of Institutions



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# Campus Diary 2023

## EDITORS' NOTE

Dear Reader

Well begun is half done. This new year is remarkable, our leadership is blessed with new titles, NCC cadet has secured place in PM' s Camp, student team has won projects, final years have secured placements and many more.

As always, we have been conducting webinars & CSR activities, hosting programmes and celebrating national festivals on campus.

The first issue of the second volume gives a comprehensive view of our accolades, accomplishments and activities during January 2023.

Wish you all a Happy New Year and Happy Reading.

### EDITORS:

**Dr. R. Jaya**

Associate Professor,  
Department of English

**Ms. Tephilla Joice P**

Assistant Professor,  
Department of Mathematics

## Chairman Felicitation



KCG College of Technology held a felicitation ceremony on 4<sup>th</sup> January 2023 in honour of **Dr. Anand Jacob Verghese** on assuming office as Chairman, Hindustan Group of Institutions. Our respected Chairman graced the event with his presence and addressed those present with an inspiring speech. He urged the faculty to learn new trends and emerging technologies which are set to revolutionize the world. He also encouraged the staff to empower students to pursue entrepreneurship and provide employment to talented young engineers.

# Congratulations

**Dr. K Vijayaraja**

**Vice Chairman - AeSI**

Head, Department of Aeronautical and Aerospace Engineering,  
elected as Vice Chairman of AeSI Chennai branch.



## Texathon 2.0



**A. L Nausheen**, 3<sup>rd</sup> year FT, **Neha Mergu**, 3<sup>rd</sup> year FT and **Vakkalagadda Drishti Rao**, 2<sup>nd</sup> year CSE represented the team Elmara Smart (Electro Magnetic Radiation Protective and Smart Technology) in the Texathon 2.0 conducted by Startup TN Textile Hackathon in collaboration with the Atal Incubation Centre (AIC), NIFTTEA Incubation Centre for Textiles & Apparels, Tiruppur held at Coimbatore from 5<sup>th</sup> to 7<sup>th</sup> January 2023. The team won a cash prize of Rs. 10,000.

## Delhi - Republic Day Camp and PM's Rally



NCC Cadet **Harshdeep Singh**, a 3<sup>rd</sup> Year student from the Department of Aerospace Engineering was selected for the prestigious Republic Day Camp at New Delhi. He had the great honour to perform at the Republic Day Celebrations and Prime Minister's Rally. He was the only cadet to be selected for this National event from 34 institutions in the 1 TN Battalion, NCC Unit, Madras A Group and is now eligible for the elite Youth Exchange Program, which is the top most camp for a NCC cadet.

Sports Achievements

## *Congratulations*

### DEPARTMENT OF MECHATRONICS ENGINEERING BATCH 2023



**S. R. Vignesh**

One year internship with  
a stipend of Rs.34,000 per month

**NOKIA** Nokia Solutions and Networks India Pvt. Ltd.



**S. Vinoth Kumar**



**K. S. Shyam**

6 month Internship with  
a stipend of Rs.10,000 per month

AVA Software Pvt. Ltd.,



## Sports Achievements



### Tekwondo Championship

**Gynanavarshni** of second year ECE represented Anna University in the All India Inter University Tekwondo Championship held at Gurunanak Dev University.



### Karate Championship

**Vijay** of third year EEE participated in the All India Inter University Karate Championship held at Atal Bihari Vajpayee University.



### Fencing Championship

**Tarunesh** of second year IT won the third place in Chennai Fencing Championship and qualified for State Championship.



### Wushu Championship

**Munnodi** of fourth year EEE won the second place in Anna University Inter Zonal Wushu Championship held at Kumaraguru College of Technology, Coimbatore.

## TENNIS TOURNAMENT



Y's Service Club of Chennai Karapakkam and YMC of KCG College Youth in association with KCG Tennis Legends Academy hosted a Tennis Tournament for U-12 Boys & Girls on 8<sup>th</sup> January 2023. **Ms. Bharathi Lakshmi** Principal Hindustan International School Karappakam, graced the occasion as the chief guest and distributed the prizes to the winners.

# Educational Sessions

## Webinar on Emerging Trends in Automotive Technology

The screenshot shows a webinar presentation with four main panels:

- Emerging trends in Automotive Technology (Top Left):** Focuses on Artificial Intelligence (AI). It states that AI application in automobiles enables drivers to improve safety and comfort. Key features listed include Headlights sense, Speed limit, and ADAS. An image shows a hand interacting with a futuristic car dashboard.
- History of Automotive (Top Right):** Titled "Lifetime of development", it shows a timeline of cars from 1886 to the future. Images include a 1886 horse-drawn carriage, a 1950 classic car, a 1970 yellow SUV, a 2000 white SUV, a 2020 silver SUV, and a futuristic blue car.
- Emerging trends in Automotive Technology (Bottom Left):** Focuses on Electric Vehicles adoption. It notes that global electric vehicle industry sales are surging significantly and are expected to grow from ~1.2 million in 2015 to ~25 million in 2025. Key factors include decreasing battery costs, technological features, and increasing regulatory pressure on emissions. An image shows an electric vehicle charging station.
- About Me (Bottom Right):** A profile for Antony Sunny, a Senior Development Engineer. It lists his education (MSc Automotive Engineering from Coventry University in 2012, BE Mechanical Engineering from Sathyabama University in 2009) and his 12 years of work experience at Caudwell Marine Ltd, Cummins Turbo Ltd, Fumax Ltd, American Axle Manufacturing, and Jaguar Land Rover. It also includes contact information and hobbies like Photography, Travelling, and Fixed Gear.

On account of World Automobile Day, Department of Automobile Engineering organized a webinar on Emerging Trends in Automotive Technology on 29<sup>th</sup> January 2023. **Mr. Antony S**, Senior Development Engineer, Caudwell Marine, England, UK was the resource person.

## Webinar on Project Catalyst

The banner features the logo for KONMA (Konma Online Network for MA) and the text "FOR PROJECT CATALYST". At the bottom, it displays the logos for Project Catalyst and Cardano Foundation, with a small 'x' symbol between them.

The Department of CSE in association with Konma organised a webinar on Project Catalyst on 13<sup>th</sup> January 2023. Project Catalyst(PC) is a Cardano specific platform where won gets to know about various projects, assessment procedures and submit their project ideas for funding. The session enlightened the participants on how to on-board and explore the PC platform.

## Value Added Training on Revit Architecture & ArchiCAD software



The Department of Civil Engineering organized an interactive three day Value Added Training Programme on Revit Architecture & ArchiCAD Software from 23<sup>rd</sup> to 25<sup>th</sup> January, 2023. Students were provided hands-on training to master the skills needed to design, develop and edit projects using the powerful tools and features available in the latest version from Autodesk.

## Illusion & Reality



Illusion & Reality, a magical show featuring Intellectual tricks based on Science, Engineering, Arts & Chalk, took place on 6<sup>th</sup> January , 2023. Magic **Mr. Bob & Ms. Suzie**, Michigan, USA, **Mr. Andrew & Ms. Zandra Anderson**, Illinois, USA and Illusionist **Mr. Michael Bruce**, Florida, USA performed among the younger generation.

# Educational Tour to Dhakshinachitra



First year students put on their thinking hats for an exciting and informative Educational Tour to Dhakshinachitra Heritage Museum, Chennai on 4<sup>th</sup>, 5<sup>th</sup> and 9<sup>th</sup> January 2023.

## Webinar on Design of Scientific Payloads for Sounding Rockets

### Sounding rockets of ISRO

Features	RH-200	RH-300	RH-300 MK II	RH-500 MK II
No. of stages	2	1	1	2
Length (m)	3.6	4.8	4.9	7.7
Lift-off weight (kg)	108	370	510	1350
Payload Wt. (kg)	10	80	70	160
Altitude (km)	35	100	150	250

### Subsystems of a scientific payload

```

    graph LR
      A[Sensor or probe] --> B[Onboard electronics]
      B --> C[Rocket telemetry system]
      B --> D[Payload checkout system]
      D --> E[Telemetry data decoding, online display and data archival]
      C --> F[Tracking and receiving system]
      E --> F
    
```

### Participants (62)

Find a participant

- Deepa Jose (Co-host, me)
- KCG College (Host)
- DS Dr. Sreelatha... (Co-host)
- D 21EEE014 Dhilip Kumar V
- abdurrahman Sheik
- AK Abhishek Kumar
- AS ACHYUTHA S S
- Akshay Krit
- AT Alex T Biju
- D D.GOBINATH
- DM Deepika M
- D Dhamodaran

### Steps in ENWi-LP payload design

- The payload design starts with the scientific objectives, from which the parameters to be measured and their expected range of values are identified.
- Measurement parameters define the sensor design.
- The parameter range and sensor output format define the Front end design of the payload electronics.
- The rocket telemetry standards define the output interface from the electronics package.

For analog data, values should be in the range of 0 to 2.5V.

Department of Sponsored Research and Consultancy organised 7<sup>th</sup> Series of Research Webinar on Design of Scientific Payloads for Sounding Rockets on 25<sup>th</sup> January 2023. **Dr. P. Sreelatha**, Head of HRDD, VSSC was the resource person. She delivered engrossing talk on Payload Checkout Designs, Onboard Electronic Designs, Environmental Challenges, Case study on Enwi-LP, Realtime Laboratory Testing and Payload Performance during SOUREX mission.



## Workshop on EXIM Practices and Procedures

A 3 Day Workshop on EXIM Practices and Procedures was conducted for the III Year Fashion Technology students in association with Tamil Nadu Apex Skill Development Centre for logistics ( TNASDC) from 18<sup>th</sup> to 20<sup>th</sup> January 2023.



## Seminar on International Fashion Brands

The School of Fashion Technology, organized a seminar on International Fashion Brands led by **Mr. T. Vimal**, Production Team Leader, Decathlon Sports India on 21<sup>st</sup> January 2023.

Mr. Vimal shared the upward trend in the purchase of international brands in India and pointed out that India's well-heeled consumer base is a catalyst in attracting international brands. He also highlighted the various ways in which students can prepare themselves to find exciting employment opportunities in the world of international fashion.



## Workshop on Fashion Illustration

The School of Fashion Technology organized an in-depth workshop on Fashion Illustration led by **Ms. Freya Wilson**, a Fashion and Graphic Designer who is also a Product Developer at Giffi, London from 23<sup>rd</sup> to 25<sup>th</sup> January 2023.

Ms. Wilson gave hands-on training on illustrating the human anatomy with reference to bio mechanics and also on rendering various fabrics and surface treatments.



## Workshop on Leadership Skills



The Centre for Transformational Leadership (CTL) organized a workshop on Leadership Skills led by **Mr. Sengu Paal**, Director, Ezone Learning on 21<sup>st</sup> January 2023. This session was the inaugural event for the first year student members of CTL.

Mr. Sengu Paal held the audience in rapt attention with an interactive session that helped students understand the attributes needed to become successful leaders. To make the workshop more innovative, he engaged the students by explaining the true essence of leadership skills through a fun-filled activity. Students walked on a carpet made of broken glass with bare feet, which encouraged them to overcome their fears and face challenges with confidence.

## Topper's Talk



15<sup>th</sup> Edition of Topper's Talk was conducted on 31<sup>st</sup> January 2023. The resource persons delivered an informative and insightful talk on the most effective strategies for engineering students to pursue a career in the civil service.



Engenius '23, a talent carnival for school students was conducted on 7<sup>th</sup> January 2023. 1311 students from 24 schools participated along with their teacher representatives in the talent carnival. In the morning session, students actively participated in 7 workshops, 10 contests and 5 displays organised by various departments. Legal awareness talk on Protection of Children from Sexual Offences (POCSO) was also organized for the school teachers. **Ms. Adhilakshmi Logamurthy**, a legal practitioner delivered the talk.



**Dr. Pa. Moorthy** IPS, Joint Commissioner of Police Law and Order, Tambaram City Police graced the Valedictory Event. He motivated the student community through his inspiring talk and felicitated the prize winners. **Mr. Sathishbabu Nagarajan**, Founder of SNAG Mozhi Pvt. Ltd. and an alumnus of KCG Tech delivered a motivational talk to the gathering on **How to be a Successful Entrepreneur**. Holy Family Convent Matriculation Higher Secondary School bagged the overall trophy of Engenius'23.



## National Youth Day



National Youth Day was celebrated on 11<sup>th</sup> January 2023. The first-year students took part in contests such as Elocution, Creative Writing, Spell Bee, Photography, Quiz, Poster Making, Shoe Art & Art from Waste with great enthusiasm and explored their inner artists.

# Freshers Day



Virtuoso'23, Freshers Talent Show was held on 12<sup>th</sup> January 2023. In line up with the events conducted on 11<sup>th</sup> January, Dance & Music Competitions were held in the morning session. Students enthusiastically participated in the competition and showcased their talents. **Mr. Aravind Karneeswaran**, Vijay TV Super Singer Fame was the Chief Guest for the Valedictory Event. He mesmerized the audience with his melodious voice & had lively interactions with the students. Prize winners of various competitions conducted on National Youth Day & Freshers Day were felicitated in the Valedictory Event.

## KCG - Pongal Celebrations



Some snippets of the colourful Pongal Celebrations at the KCG Tech campus.

## Republic Day Celebration



Principal unfurled the National Flag and addressed the gathering on the 74<sup>th</sup> Republic Day Celebration. The event witnessed Guard of Honour parade, drills and hoisting of NCC Flag by Lt. **C Akin**, Associate NCC Officer.



## Film Appreciation Club

Alumnus **Mr. OV Prasanth**, Film director, an Associate member of the South Indian writer's association and the Guest speaker of the day gave a presentation on **An overview of making short film-making**. He gave a brief idea and the steps involved in the process of film-making.



## English Literary Club

**JAM** (Just a Minute) was conducted. The topics given were more on the humorous side like **Nights during lockdown, My first day in college, My Physics Teacher and My best friend**.



## Eco Club

A guest lecture on the subject of **Climate Change and Us** was scheduled on 6<sup>th</sup> January 2023. **Mr. Deepak Venkatachalam**, a founding member of Suzhal Arivom was the resource person.



## Fine Arts Club

The students were taught the techniques in **Fabric Painting** and were allowed to try the techniques themselves with fabric Fevicryl paints. Later a demonstration on tie and dye folding and cold brand reactive dyeing techniques were given to the students.

## Heritage Club

Students were given an **Overview of Rich Culture of Chettinad**, their history, architecture, cuisine, handloom, jewellery and also on the festivals celebrated on 14<sup>th</sup> of January through out India under various names and their significance.



## Music Club

**Open Mic Day, Instrumental Mash up and Piano performance** were conducted and club members showcased their talents.



## Dance Club

Students were taught how to dance **Freestyle** with different concepts and with various types of music.



## Quiz Club

This Quiz session - **Master Mind** was conducted and students were tested on General Knowledge, Famous personalities and Namma ooruu Chennai.







## AR / VR Club

Students were given step-by-step instruction for installing the **Unity Software, 3D modeling Software**. Basic commands and operations of tools were taught.



## Mobile App Club

Introduction session on **Android Studio** was conducted. Students learned to create screen view tools, height and width of the app screen with react and developed codes using react libraries.



## IoT Club

**Mr. Jegan Vincent**, Founder & CEO of Boodskap Inc., Dallas was the guest speaker. He spoke about the **Role of IoT** in various sectors and about the boards which are getting developed and courses available which students can use for their career development.

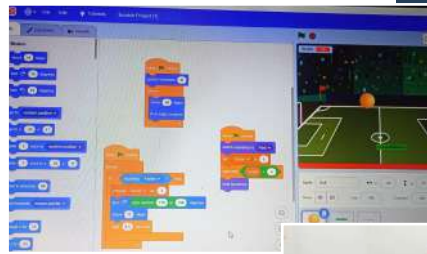


## Math Club

A Workshop on **Math Tips & Tricks** was conducted. **Mr. Karthick T**, Placement Trainer, Career Planning & Development Cell was the resource person.

## Programming Club

**Training session on Scratch** (Visual Programming Language) was conducted. They actively participated and interestingly involved in creating interactive stories, animations and games using scratch.



## Space Exploration Club

**A Session on Asteroid Hunt** was conducted. Students were explained about asteroids, meteors and other space objects and they were educated on the ground and space-based observatory telescopic centers that continuously watched the sky. **Mr. Dhakshina Murthy**, Third year, Aerospace Engineering elaborated on 'Asterometrica', software application used to identify asteroids using real telescopic images from observatory centers.



## Drone Club

**Session on Agriculture Drones** was conducted. The external resource person was the founder of Vayuratha Private Limited.



## Robotics Club

Students were educated on **Various Types of Sensors** like IR Sensor, Ultrasonic sensor and their applications, Arduino circuit board and its usage, Collision avoidance of the Robots. Basic Robot and Line following robot assembly were demonstrated to the students.



## Guideship Approval

- **Dr. Vignesh Kumar M**, Assistant Professor, Department Dept. of Mechanical Engg. has received guide ship from Anna University under the Faculty of Mechanical Engineering.

Area of Specialization: **Tribology, Additive Manufacturing, FEM, Corrosion**

## Publication in SCI Indexed Journals

Authors	Journal Name	Article Title	Impact Factor	ISSN	Indexing
<b>Mr. Mathavan</b> , Assistant Professor, Department of Automobile Engineering	Advances in Materials Science and Engineering, Hindawi	Experimental Analysis for Nitrogen Oxide Reduction in a Diesel Engine by the Hydrogen-Assisted Selective Catalytic Reduction Technique	2.098	1687- 8442	SCI, Anna University Annexure 1, Q1 Journal, WoS, Scopus,

## External Fund Received

Name of Agency / Scheme	Name of PI	Name of the event	Amount Sanctioned in
DST SERB Seminar Symposia	<b>Dr. Deepa Jose</b>	Integration of AI and IOT for Industry 4.0 Towards Atmanirbhar Bharat	Rs, 1,50,000
AICTE SPICES	<b>Dr. S. Gopinath</b> <b>Dr. M. Krishnamoorthy</b> <b>Dr. R.Anand</b>	Club Activity	Rs, 1,00,000



# CAMPUS FACILITIES



**DST Supported FIST Lab**



**Car Simulator**



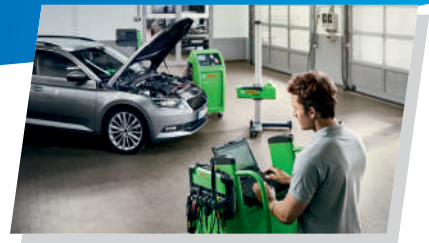
**Gymnasium**



**Aero Hangar**



**Link Flight Simulator**



**Bosch Certified Training Centre**



**NCC**



**Horse Riding**



**Inferno Racing**