KCG
COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS

A+ NAAC | NBA NATIONAL BOARD of ACCREDITATION AERO | CSE | ECE | IT | nirf Engineering Ranking 2024 Band 201-300

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CAMPUS DIARY

EDITORS' NOTE

Dear Reader,

The December edition focuses on the recognition we received for strengthening Industry-Academia partnership and achieving in Smart India Hackathon, both as contestants and as the Nodal Centre for Software edition. We are proud of our role in fostering innovation and providing a platform for constructing realistic solutions.

In addition to focussing on our academic pursuits, this edition covers the Christmas celebrations on our campus and the festivities extended to an orphanage as a part of our Corporate Social Responsibility initiative.

As we step into the new year, the college is set to raise its bar even higher, and this newsletter will continue to mirror all exciting developments and achievements.

Happy Reading and Happy New Year!

EDITORS:

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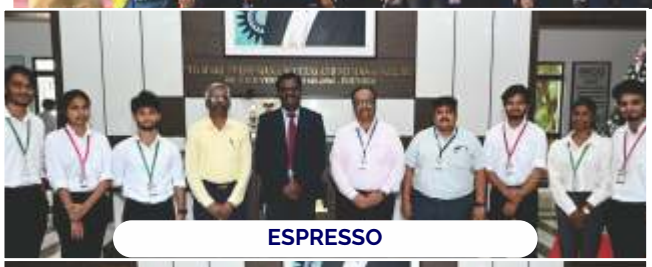
Smart India Hackathon

Industry-Academia Partnership Award

The College has been honored with the Best Institution for Industry-Academia Partnership Award under the Platinum Category at the Annual Summit on Technology, IP, and IIP by the Confederation of Indian Industry (CII).

KCG Tech Student Participation

8 teams from KCG Tech have made it to the Grand Finale of the Smart India Hackathon 2024!



ESPRESSO

FUSION SIX

TECHAZURE

TEAM PAC_BOT

WINDTECH

TEAM IGNITE

INFINITE REALITY

NAGRIK AUR SAMVIDHAN

SIH 2024 Champions

Team Pac_Bot has won at the Smart India Hackathon 2024 by solving the critical problem of water surface cleaning, proposed by Autodesk.

This prestigious competition saw participation from over 300 teams, of which only six teams advanced to the final stage. Among these outstanding contenders, our team emerged as the winners, showcasing their innovation, technical expertise, and commitment to addressing real-world challenges.

Team Windtech has emerged as the Joint Winner in the Smart India Hackathon (Hardware Edition), securing a cash prize of ₹50,000! Outshining over 500 other teams, the students tackled the Student Innovation problem statement with brilliance and creativity.

This is a back-to-back victory for Team Windtech, defending their title for the second consecutive year!

SmartIDEAthon 2024

Team Oxytech won the prestigious **Dr. G.V.V.Rao** Young Engineer Dreamer Award at SmartIDEAthon 2024 with a cash prize of ₹50,000.

SmartIDEAthon 2024 was organized in collaboration with Startup India, Invest India, Northeastern University Center for Emerging Markets (Boston), and NUCEE.

Natyakala Saraswathi

Devi Sri, a second-year Aeronautical student, participated in a World Record attempt on 28th December 2024 organized by the screen media. The event successfully set a new record, and she was honored with the title of "Natyakala Saraswathi" by the World Book of Records for her contribution to the beautiful art form Barathanatyam for dancing continuslly for 1 hour . This is her 3rd time in world record and successfully accomplished the world record and got the certificate.

Memorandum of Understanding

The College signed a MoU with the Institution of Engineering and Technology (IET), UK, on 11th December 2024. The MoU was formalized by **Dr. Annie Jacob**, Director of KCG Tech, and **Mr. Amitabh Sinha**, Head of Growth, IET India, in the presence of **Mr. James Howe**, International Business Manager, IET UK, marking a significant step towards innovation and global collaboration.

A 5-Day National Seminar on Quantum Computing & Machine Learning Solutions

The Department of Research and Consultancy organised a 5-Day National Seminar on Quantum Computing & Machine Learning Solutions: Pathways to Sustainable Development from 9th to 13th December 2024. Featuring insightful keynote sessions, interactive workshops and engaging panel discussions, the seminar united leading experts, researchers and educators across the nation. Participants delved into cutting-edge advancements, practical applications and emerging research, fostering a vibrant exchange of ideas.

This enriching event not only highlighted the convergence of technology and sustainability but also inspired collaborative efforts to shape a more sustainable future.

SMART INDIA HACKATHON 2024- SOFTWARE EDITION

KCG College of Technology, a Unit of the Hindustan Group of Institutions, hosted the seventh edition of the Smart India Hackathon (SIH) 2024 – Software Edition along with 50 other nodal centers across the nation on 11th and 12th December. KCG College is one of the four colleges in Chennai selected to host the event.

The event was organized by AICTE, the Ministry of Education, the Ministry of Education's Innovation Cell, and the Institute Innovation Council (IIC). This 36-hour hackathon brought together 120 of India's brightest young innovators whose technical expertise and creativity were on full display as they addressed the four problem statements issued by the Ministry of Communications' Department of Posts to revolutionize India's Postal Infrastructure through Technological Innovation. The 120 participants organised into 20 teams worked on one problem statement. A total of 5 teams worked on each of the four problem statements. The best-performing team for each of the problem statements was selected as the winner and awarded a cash prize of one lakh rupees.

The national-level inauguration of SIH 2024 was graced by Union Minister for Education, Shri Dharmendra Pradhan, in which all the 51 nodal centers participated online. In the inaugural ceremony held at the nodal centre of KCG College of Technology, **Dr K Radhakrishnan**, IPS (Retd.), Former Director General of Police and Member of the Fifth Police Commission, Government of Tamil Nadu, served as the Chief Guest. **Dr. Annie Jacob**, Director of KCG College of Technology, **Shri K A Devaraj**, Director, Postal Service (HO), TN Circle, **Ankur Tiwari**, Deputy General Manager, Parcel Directorate, **Shri M Pattabhiraman**, Deputy Manager, CERT, **Shri Mohandoss K,** Deputy Manager, CEPT, **Shri Samrat Shinde**, Principal Engineering Manager, Persistent Systems Ltd, and **Shri Anand Sivaraj**, Manager (IP & Technology Transfer), AICTE Innovation Centre, Chennai participated. **Dr. M. Muthukannan**, Principal of KCG College of Technology welcomed the gathering.

The event witnessed a rigorous two-round mentor discussion and three-round evaluation process. Following each discussion, participants refined their codes and presented updated work for evaluation, showcasing their adaptability and dedication to innovation.

The event also featured an engaging cultural programme, organised by the college's music and dance clubs, which included songs in different languages, Tamil Nadu's traditional folk dances like Karakattam and Silambattam, alongside contemporary Western performances. This fun dimension to the intense innovation marathon kept the participants relaxed and energised.

On the second day of the event, the valedictory function was graced by the chief guest, **Mr. Kuhan Madhan**, Associate Vice President, Guidance Tamil Nadu, a notable alumnus of KCG College of Technology from the 2005-2009 EEE batch. Mr. Madhan's return to his alma mater for this prestigious event symbolised the enduring connection between the

institution and its graduates, showcasing the impact of KCG College of Technology in shaping successful professionals. He was joined by Dr. Annie Jacob, Director of KCG College of Technology, **Mr. Enid Verghese Jacob,** Deputy Director, Hindustan Group of Institutions, **Dr. M. Vignesh Kumar,** SPOC of SIH from KCG College of Technology, **Dr. G. Prabhakaran,** Dean - Academics, KCG College of Technology, **Mr. Samrat Shinde**, Principal Engineering Manager, Persistent Systems Ltd, and **Mr. Anand Sivaraj**, Manager (IP & Technology Transfer), AICTE Innovation Centre, Chennai.

The event concluded on a high note with positive feedback from Ministry representatives, evaluators, mentors & participants.

HGI Christmas Celebration

Hindustan Group of Institution celebrated Christmas on 18th December 2024. The event was graced by the esteemed presence of our Chairman, **Dr. Anand Jacob Verghese**, His Lordship **Rt. Rev. Dr. Gregorios Mar Stephanos Episcopa**, Bishop of the Malankara Mar Thoma Syrian Church, and **Ms. Michaela Kuchler**, Consul General of the Federal Republic of Germany, Chennai.

The festive evening was filled with melodious carols, lively dance performances, and the delightful tradition of sharing Christmas cake. Adding to the excitement, winners of the Christmas contests were recognized and felicitated during the celebrations. It was truly an evening of joy, unity, and festive cheer!

HGI Christmas contest

Mistletoe Mavericks Christmas Tree Making Competition

The College is the proud winner of the Mistletoe Mavericks Christmas Tree Making Competition organized by the Hindustan Group of Institutions! Our innovative team crafted the tallest Christmas tree using sustainable materials, showcasing creativity and a commitment to eco-consciousness.

Our Eco-Friendly Christmas Tree!

Standing tall at 20 feet, this magnificent tree is a masterpiece of Sustainability and Creativity. Take a closer look and discover the innovative materials used to create this stunning display:-

- Bamboo Poles: Stacked to form the tree's structure
- Bamboo Leaves & Yellow Hay: Layered to create a lush, green effect
- Recycled Materials: Handmade decorations, including colorful paper balls, hay balls,and stencil-cut stars
- Repurposed Garments: Ribbons and cloth border add a festive touch

The Story Behind the Tree

Our eco-friendly Christmas tree is more than just a decoration – it's a symbol of hope, guidance, and the festive spirit. The radiant star at the pinnacle is made from bamboo and filled with hay, while the gift boxes at the base are crafted from recycled materials, representing Santa's bag of surprises.

Biblia 2024

Dr.Kavitha Esther Rajakumari, Associate Professor, CSE and **S.Mythili,** Second year, CSE secured the first prize in Biblia - the Bible Quiz Contest conducted among the Hindustan Group of Institutions. Our institute was felicitated during Christmas Celebrations organized by the Hindustan Group of Institutions, reflecting remarkable the knowledge and commitment of our winners.

KCG Christmas celebration

KCG Techians celebrated Christmas with joy and unity on 20th December 2024. The campus came alive with vibrant decorations and melodious carols, spreading the festive spirit throughout the KCG Tech community.

Dr. Babu John, Former Professor of Chemistry, delivered the Christmas message.

Dr Annie Jacob, Director, KCG Tech delivered an impactful message, highlighting the profound importance of maintaining hope, embracing forgiveness, and nurturing faith.

The event beautifully captured the essence of togetherness and festive cheer, leaving everyone with cherished memories.

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

The Club celebrated the spirit of Christmas on December 17, 2024, at the C.S.I Higher Secondary School for the Deaf and Autistic. The event was a heartfelt gesture to spread love, joy and warmth to the young children of the school.

The celebration featured a beautifully enacted skit portraying the birth of Jesus Christ, which captivated the audience and conveyed the message of hope and salvation. A festive dance performance to the cheerful tune of Jingle Bells added a lively touch, filling the atmosphere with excitement and holiday cheer.

The highlight of the event was an inspiring sermon on the life of Jesus, emphasizing his teachings of love, compassion and kindness. This message deeply resonated with everyone present, creating a sense of unity and gratitude.

The event concluded with moments of joy and interaction, leaving smiles on the faces of the children and attendees alike. It was a day of celebration, compassion and meaningful connections, perfectly embodying the true spirit of Christmas.

Research Activities

Publication in SCI Indexed Journals - December 2024

Authors	Journal Name	Article Title	Impact Factor	ISSN	Indexing
Ms. K. Buvaneswari, Assistant Professor (SG), Department of Chemistry	Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy, Elsevier	Synthesis, nonlinear optical activity, solvents effect, -cyclodextrin effect, and cytotoxic activity on skin fibroblast and breast cancer cell lines of a new chalcone derivative of nabumetone	**4.3**	**1386 -1425**	SCI, Anna University Annexure I, Q1 Journal
Andal Venugopal, Department of Chemistry	Journal of Materials Science: Materials in Electronics	Effect of silane-functionalized green synthesized silver nanoparticle, ferrite, and silk microfiber epoxy composite on electromagnetic interference shielding	**2.7**	**0957 -4522**	SCI, AU Annexure I, Q2 Journal
	Polymer-Plastics Technology and Materials	Review on Superhydrophobic Polymer Composite Coating Materials and its Coating Technology for Advanced Applications	**2.6**	**2574 -0881**	SCI, Anna University Annexure I, Q2 Journal
	Journal of the Indian Chemical Society	Biogenic synthesis and characterization of zinc oxide nanoparticles for effective and rapid catalytic reduction of 4-nitrophenol	**3.2**	**0019 -4522**	SCI, Q3 Journal
Seeniappan Kaliappan, Department of Mechanical Engineering	Journal of the Australian Ceramic Society	Dry and wet sliding, fatigue, creep and mechanical properties of AA-7475 metal matrix composite reinforced with Si2N2O from rice husk ash	**1.9**	**2510 -1560**	SCI, Anna University Annexure I, Q3 Journal

14 papers got published & indexed in Scopus during December 2024

S.No	Title	Funding Agency	Date of Sanction	Amount
1	Grant-in-Aid Head for hosting "Smart India Hackathon Software Edition-2024	AICTE	7th Dec 2024	Rs.11,96,200

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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