

EDITORS' NOTE

Dear Reader,

July 2025 was a month of achievement, innovation, and collaboration. We secured the prestigious QS Rating Award, Diamond Badge, and notable rankings in CSR, as well as in India Today-MRDA Surveys. Our Aeronautical student team's selection as a finalist in ISRO's IROC U'25 is yet another feather added to our cap.

On the academic front, a series of FDP covering domains including OBE, Industry 4.0, MATLAB applications was conducted. Our students also embraced opportunities for experiential learning through industrial visits, game development boot camps, and sustainability-driven events like Manjappai Mela.

Adding to our culture of social responsibility, NSS Units' medical camps reaffirmed our commitment to community well-being. As we step forward, we believe that our success is measured through our continuous pursuit of excellence and collaboration.

Wish you all a happy reading.

EDITORS:

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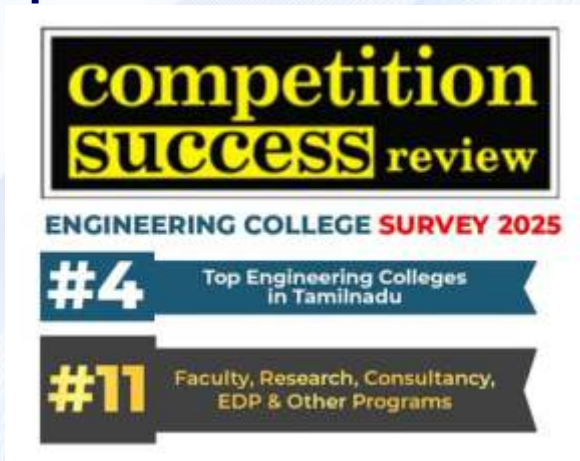
QS Ratings Award – Diamond Badge



The College has been honoured with the prestigious QS Ratings Award – Diamond Badge. The award was presented by His Excellency **Shri Jishnu Dev Varma**, Hon'ble Governor of Telangana, during the felicitation ceremony held in Hyderabad on 24th July 2025.



Competition Success Review Engineering College Survey



The College has been ranked prominently in the Competition Success Review Engineering College Survey 2025.

India Today-MDRA Best Colleges Ranking 2025

The College has been featured in the India Today-MDRA Best Colleges Ranking 2025, a recognition that underscores our steadfast pursuit of academic distinction and transformative education.



The Week: HANSA Research Survey 2025 Ranking

Top Engineering Colleges		Private Engineering Colleges		South Zone	
Overall		Overall		Overall	
82		56		34	
Chennai	TamilNadu	Chennai	TamilNadu	Chennai	TamilNadu
7	14	7	11	7	11

The College has been featured in the The Week: HANSA Research Survey 2025 Ranking

IRoC-U'25 – ISRO Robotic Challenge

Team AstroMartians from the Department of Aeronautical Engineering has been selected as one of the 16 finalists for the prestigious IRoC-U'25 – ISRO Robotic Challenge, organized by ISRO. Out of over 1700+ registrations from institutions across India, their innovative project, Pilodromus Quadcopter, stood out for its technical excellence and futuristic approach, earning a coveted spot among the top 16 teams. The final round of the challenge will take place in Bengaluru, where the team will represent the institution on a national platform of cutting-edge innovation.



Sports Achievements

Keerthana of Third year CSE won the winner in women's category in Rocotopia Rock climbing tournament held at HITS on 25-07-2025.

Raj Kumar of final year EEE won the runner up in men's category in Rocotopia Rock climbing tournament held at HITS on 25-07-2025.

Faculty Development Programme

Internal Quality Assurance Cell New Faculty Orientation Programme

A comprehensive Faculty Orientation Program was conducted from 2nd to 5th July 2025, designed to equip newly joined faculty members with essential knowledge and institutional practices. The program offered in-depth sessions on Outcome-Based Education (OBE), Learning Management Systems (LMS), assessment methodologies and HR policies.

Expert-led sessions provided detailed insights into the examination process, research opportunities and HR protocols, along with hands-on training in LMS–MS Teams and Smart Board usage. This initiative aimed to ensure a smooth academic transition and align faculty with the institution's teaching standards and expectations.



FDP on OBE, Research Empowerment through Technology

An FDP on Outcome-Based Education (OBE) and Research Empowerment through Technology was conducted from 1st to 5th July 2025. The program was inaugurated by **Dr. Thanikaivelan** from CSIR-CLRI, who shared insights on research-driven industrial transformation. **Dr. E. Uma** and **Dr. Sree Sharmila** from Anna University delivered sessions on Generative AI and AI in Healthcare. Online sessions by **Dr. Jacobhine Susmi**, **Dr. Sumathi** and **Dr. Kalpana V** explored AI tools for research, semi-supervised learning and teacher cognition in digital teaching. **Dr. Anju A** highlighted research metrics relevant to accreditation frameworks, while **Ms. Tharrini R** from MathWorks demonstrated the use of MATLAB/Simulink in effective teaching. **Dr. H. S. Guruprasad** led a series of sessions on OBE practices and **Dr. S. Kumaran** from NIT Trichy provided valuable insights on research funding opportunities.



Department of Automobile, Mechanical & Mechatronics Engineering FDP on Building Sustainable Smart Industries: Industry 4.0

The departments organized a five-day Faculty Development Programme (FDP) on "Building Sustainable Smart Industries: Industry 4.0 – Manufacturing, Mobility & Automation" from 7th to 11th July 2025. This initiative aimed to upskill faculty with emerging industrial technologies and promote interdisciplinary learning aligned with smart industry practices.

The sessions featured renowned industry leaders and academic experts including **Mr. Manoharan Doraisamy**, AI & Innovation Lead, Ashley GCC, Chennai, inaugurated the series with insights on AI innovations shaping smart manufacturing, **Dr. Jegadeeshwaran R**, Deputy Director & Professor, Center for E-Automation Technologies, VIT Chennai, shared advances in automation and control technologies, **Mr. Bibin J Joey K S**, Associate General Manager, Daimler India Commercial Vehicles, spoke on sustainable mobility and automotive industry transformation, **Dr. Sathian D**, Associate Professor, VIT Chennai, addressed applications of computer science in next-gen automotive systems., **Mr Srinivasan Yaganaram**, CEO, Grahas AR VR, introduced immersive technologies in training and industrial design using AR/VR, **Mr. Vignesh Raja**, CEO, F1st Mr Business Analytics Pvt Ltd., explored the role of analytics and AI in Industry 4.0 ecosystems, **Dr. Arockia Selvakumar**, Professor, Mechanical Engineering, VIT Chennai, presented on design intelligence and smart automation in mechanical systems, **Dr. Pratheesh K**, University of Technology & Applied Sciences, Muscat, Oman, offered a global perspective on industrial engineering and operations management, **Mr. Balakumaran M**, Technical Architect, Ideas2IT Technologies, Chennai, demonstrated the impact of smart technologies in design and product development and **Mr. Silambarasan N**, Senior Deputy Manager, Wheels India Ltd., concluded the program with a deep dive into costing and design strategies for the passenger car segment.

Each session was structured to provide cutting-edge knowledge and practical insights, fostering innovation, sustainable thinking and academic-industry collaboration among faculty participants.

The Department of Research and Consultancy

In association with the IEEE KCG Student Chapter, the annual National-Level Faculty Development Program (FDP) on "Research Mastery: Thesis Writing, Grant Proposal & LaTeX Formatting" was organised from 7th to 11th July, 2025.

The FDP aimed to enhance the research capabilities of faculty members and research scholars across India by focusing on thesis writing techniques, effective grant proposal drafting and mastering LaTeX for research documentation. The sessions promoted improved research methodologies and a culture of research integrity within institutions.



Walkthrough and Interactive Q&A Session for IET Faculty Members

The IET On Campus Chapter organised a Walkthrough and Interactive Q&A Session for IET Faculty Members on 26th July 2025. The session was led by **Mr. Amitabh Sinha**, Head of Growth-Thought Leadership and Policy, Membership & Accreditation and **Ms. Saudamini Dutta**, Assistant Manager, Business Development. The objective was to familiarise faculty members with IET's academic and professional frameworks, highlighting membership procedures, accreditation opportunities and collaborative benefits. The interactive format allowed participants to gain valuable insights into the scope of institutional engagement with IET at both national and international levels.



KCG MathWorks Academy

FDP on Finite Element Analysis, Aerodynamics, Flight Dynamics & Control with MATLAB and Simulink

In collaboration with MathWorks Academy, a three-day Faculty Development Program was organised from 7th to 9th July 2025 on "Finite Element Analysis, Aerodynamics, Flight Dynamics & Control with MATLAB and Simulink." The resource person, **Mr. Venkatesan Seetharaman**, Training Engineer at MathWorks India Pvt. Ltd., guided participants through practical applications of MATLAB and Simulink in solving engineering problems related to structural analysis, aerodynamics and flight control systems.

This FDP aimed to upskill faculty members with simulation-driven engineering techniques and provide exposure to industry-standard tools used in advanced engineering design and analysis.



Hands-on Faculty Training Program on MATLAB Alchemy: Transforming Engineering Mathematics

In association with MathWorks and ARK Infosolutions Pvt. Ltd., a two-day Hands-on Faculty Training Program titled "MATLAB Alchemy: Transforming Engineering Mathematics" was conducted on 8th and 9th July 2025. The session was led by **Mr. Afsal S**, Senior Application Engineer - MathWorks, ARK Infosolutions Pvt. Ltd., who demonstrated how MATLAB can be effectively used to teach and visualize complex engineering mathematics concepts. The training equipped faculty members with modern computational tools to enhance classroom engagement and foster a deeper understanding of mathematical modeling.



Hands-on Workshop on “Smart Algorithms in Action: Machine & Deep Learning with MATLAB for CS”

A hands-on workshop titled “Smart Algorithms in Action: Machine & Deep Learning with MATLAB for Computer Science” was conducted on 26th July 2025. The session was facilitated by **Mr. Afsal S**, Senior Application Engineer – MathWorks, ARK Infosolutions Pvt. Ltd., for third-year CSE students, the workshop offered practical exposure to implementing intelligent algorithms using MATLAB. Participants gained valuable skills in machine and deep learning applications, reinforcing classroom concepts through real-time simulation and coding exercises.



MathWorks Industry Day – Hands-on Workshop on “Empowering Academia for Real-World Impact”

MathWorks Industry Day, a two-day hands-on workshop titled “Empowering Academia for Real-World Impact”, was organised on 24th and 25th July 2025. The session was conducted by **Mr. Afsal S**, Senior Application Engineer – MathWorks, ARK Infosolutions Pvt. Ltd. for the second-year students from the Departments of Aeronautical, Aerospace, EEE, Mech, MTR, Auto and Civil Engineering.

The workshop focused on bridging the gap between academic learning and industry expectations through practical applications using MATLAB tools. Participants gained hands-on experience in simulation and modelling, equipping them with tools to solve engineering problems with real-world relevance.



Department of Aeronautical and Aerospace Engineering

Guest Lecture on “Space Situational Awareness – A Path for Space Sustainability”

A guest lecture on “Space Situational Awareness – A Path for Space Sustainability” was organised on 26th July 2025 in commemoration of Dr. APJ Abdul Kalam Memorial. The session was delivered by **Dr. Hariharan K**, Scientist-SF, Vikram Sarabhai Space Centre. He provided deep insights into the importance of tracking and managing space debris to ensure the sustainability of future space missions. The lecture gave students a practical perspective on ISRO's strategies and ongoing efforts in space situational awareness. A felicitation ceremony was also held to honour students actively participating in the KCG SAT program, recognizing their dedication to satellite development.



Department of Artificial Intelligence & Data Science

GameDev Bootcamp on “Game Development for Newbies

A three-day training programme titled “GameDev Bootcamp: Game Development for Newbies” was organised from 17th to 19th July 2025. **Mr. S Sabesh Kumar**, Founder & CEO of Saby the Noob and **Mr. Prathush Hariharan**, Game Developer at Saby the Noob, Chennai, served as the resource persons. The bootcamp introduced participants to the fundamentals of game development, offering hands-on experience and valuable insights into the gaming industry. It served as an ideal platform for beginners to explore game design and development as a creative and technical skill.



Department of Civil Engineering

Industrial Site Visit to Chennai Peripheral Ring Road Project

An industrial site visit was arranged for the Civil Engineering students to the Chennai Peripheral Ring Road Project – Section 1 at Minjur on 26th July 2025. The project, initiated by the Tamil Nadu Road Development Company, aims to reduce traffic congestion in Chennai by connecting Ennore to Mahabalipuram along a 125 km stretch. With an estimated cost of ₹15,000 crore, it stands as one of the largest infrastructure projects in Tamil Nadu, divided into five major construction sections. Section-1, managed by the TATA Group, spans 25 km in Minjur. During the visit, students observed key civil engineering practices such as pile erection, cofferdam construction, launching girder operations, environmental safety measures, use of geotextile pavements for weak soil, conventional piling techniques and material testing procedures as per IS standards. The visit offered valuable on-site exposure to real-world construction methodologies and project management.



Department of CSE(CS)

Guest Lecture on Distributed Ledgers & Blockchain Technology

A guest lecture on "Distributed Ledgers & Blockchain Technology" was organised on 22nd July 2025. The session was delivered by **Dr. John Augustine**, Professor, Department of CSE, IIT Madras. The lecture offered students a comprehensive understanding of blockchain fundamentals, its distributed architecture and real-world applications. The engaging session helped participants explore the future scope of blockchain in cybersecurity and inspired further learning in this emerging domain.



Department of Mechanical Engineering

Seminar on Robotic Surface Preparation & Advanced Surface Treatment

A seminar on "Robotic Surface Preparation & Advanced Surface Treatment" was organised on 28th July 2025. The session was delivered by **Mr. Johnson Mathew**, General Manager, Airblast Group of Companies, Saudi Arabia and an alumnus from the 2005–2009 batch.

The seminar provided in-depth insights into cutting-edge technologies used in robotic surface preparation and modern surface treatment methods across industries. Mr. Johnson shared practical industry applications and global trends, offering students a valuable perspective on the future of mechanical engineering and automation in surface finishing.



Department of Mechatronics Engineering

Hands-on workshop on Introduction to Arduino & Sensors

A hands-on workshop on Introduction to Arduino & Sensors was organised on 26th July 2025. The session was led by **Mr. Gunaseelan Ravindran**, CEO of KITE ROBOTICS, Chennai. Designed to provide practical exposure to embedded systems, the workshop introduced participants to the fundamentals of Arduino boards, sensor interfacing and real-time applications. This interactive session enabled students to enhance their technical skills in electronics and automation through guided experimentation and prototyping.



The School of Fashion Technology

Guest Lecture on Industry 4.0 in Apparel Industry

A guest lecture on "Industry 4.0 in the Apparel Industry" was organised on 9th July 2025. The session was led by **Mr. G. Somasundaram**, Panel Resource Person – EDP, MSME Technology Development Centre (PPDC Agra).

The lecture provided faculty with a foundational understanding of the application of Industry 4.0 technologies in apparel production. Participants gained valuable insights into how digital systems enhance manufacturing efficiency, improve product quality and enable better traceability. The session also inspired students to explore the integration of smart technologies in their academic projects and entrepreneurial ventures. It offered a clear perspective on evolving industry expectations and how academic learning is aligned with the future demands of the apparel sector.



Industrial Visit to Pearl Global Industries Limited

On 4th July 2025, students visited Pearl Global Industries Limited. The visit included a guided tour of the production lines, an interactive session with industry professionals and discussions on wage structures, compliance audits and buyer expectations. Students also witnessed safety demonstrations and learned about HR best practices in garment manufacturing units, gaining valuable industry insights.



Industry Visit to White House Apparels – Knits Division

Faculty members of the department visited White House Apparels – Knits Division on 9th July 2025. The visit aimed to strengthen academia-industry collaboration and explore opportunities for mutual growth through knowledge exchange and technical engagement.

Guest Lecture on Life Cycle Assessment in Textile & Clothing Industry

On 16th July 2025, the department organized a guest lecture on "Life Cycle Assessment in Textile and Clothing Industry" by Prof. **Dr. Subramanian Senthilkannan Muthu**, a global expert in sustainable fashion and LCA. The session provided students with a comprehensive understanding of the LCA framework and its practical applications in apparel design. They learned to assess and compare material choices based on environmental impact, explored current tools and certifications for sustainable manufacturing and gained awareness of global standards and buyer expectations in eco-fashion. The lecture also inspired students to integrate sustainability into their academic projects and future career paths.



Recent Trends in Technical textile

Guest lecture on "Recent Trends in Technical Textile" was organised on 24th July 2025. Prof. **Dr. Seshadri Ramkumar**, Professor at Texas Tech University, USA, addressed the session and shared insights on innovations in technical textiles, including smart fabrics, protective materials and industrial applications. The session offered students valuable exposure to global trends, research opportunities and the evolving scope of technical textiles in various sectors.



School of Fashion Technology Manjappai Mela

The Manjappai Kiosk came alive with colour, creativity, and conscious living during the Manjappai Mela, a unique sustainability event. Students from the department enthusiastically participated in this eco-friendly initiative, where fashion met purpose.

This event, conducted in association with TNEPCB, Urbaser Sumeet, and the college on 26th July 2025, not only highlighted the importance of reducing textile waste but also empowered the community to embrace sustainable fashion choices.

KCG Placement Cell Expert interaction session on VLSI, FPGA, & Hardware System Design

Industry Partnership and Corporate Affairs organised an Insightful Expert Interaction session was organized in collaboration with Capgemini, focusing on VLSI, FPGA and Hardware System Design on 21st July 2025. The event witnessed the participation of distinguished industry leaders from Capgemini: **Mr. Harish Kumar K** (Vice President), **Mr. Vijay Raman** (Senior Director), **Mr. Kesavan M** (Director) and **Mr. Anandan Dilli** (Director).

Through dynamic presentations and engaging discussions, the session explored key developments in hardware system architecture, real-world challenges in VLSI design, advancements in FPGA-based systems and the increasing integration of automation and AI in hardware engineering.

Students received valuable insights into industry workflows, project lifecycle management and emerging career paths in this specialized domain. The session not only enriched their academic perspective but also served as a powerful platform for direct interaction with professionals shaping the future of technology.

This collaborative initiative significantly contributed to bridging the gap between classroom learning and industry expectations, empowering our students to prepare for global engineering challenges with confidence.



Centre for Transformational Leadership INNOVISION'25 - IDEATHON

The fourth edition of Innovision'25 Ideathon was conducted on 26th July 2025. The event provided a platform for students to present their innovative ideas and receive expert guidance to transform them into prototypes. Jury members **Mr. Sakthivel Shanmugam**, Senior Engineer - Makers Lab, CED Anna University and **Dr. Solai Manohar**, Dean – IEDC, KCG Tech, encouraged the participants and shared valuable insights on developing their ideas into patents, projects and securing funding. Winners of the event were awarded exciting cash prizes in recognition of their creativity and problem-solving skills.



NSS Unit of KCG Tech Dental Screening & Awareness Camp

In association with the Y's Service Club of Chennai, Karapakkam, a dental screening and awareness camp was conducted at the college in collaboration with the **Chettinad Dental College and Research Institute**. The initiative, led by a dedicated team of dental students, offered comprehensive oral health check-ups and educated participants on the importance of maintaining dental hygiene. The camp served as a valuable platform for promoting preventive dental care and encouraging students and staff to take proactive steps toward their oral well-being.



Research Activities

Publication in SCI Indexed Journals - July 2025

Authors	Journal Name	Article Title	Impact Factor	ISSN	Indexing
Dr. R.G. Panneerselvam, Associate Professor, School of Fashion Technology	Indian Journal of Fiber and Textile Research (IJFTR) of (CSIR-NIScPR) New Delhi	Design & development of a foot pedal operated 'Center Close Shed-Horizontal Lever Electronic Dobby' for weaving all-over and brick motif fabrics	0.6	0971-0426 (Print) /0975-1025 (Online)	Indexed in SCI, Annexure-I
Dr. S.Roselin Mary, Professor & Head of the Department Cyber security	Signal, Image & Video Processing (Springer)	Driving behavior classification based on oversampled signals using optimized mesh-informed neural networks	2.13		Indexed in SCI, Annexure-I
Dr. S. Kaliappan, Professor-Department of Mechanical Engineering	Surface Review and Letters	Mechanical, Tribological, Fatigue, and Creep Performance of Aa 7075 Composites Reinforced with Annealed & Functionalized Biosilica from Red Matta Rice Husk	1.2		AU Journal list/ SCOPUS/Science Citation Index Expanded (SCIE)

11 Papers got published and indexed in Scopus during July 2025.

Doctorates Completed

Scholar Name & Guide Name	Title	Date of Vice voce
Mr. N. Vijayaraghavan, Part-Time Scholar at University of Madras Guide: Dr.V.Rajkumar Dare, Professor & Head(retired), Department of Mathematics, Madras Christian College, Chennai Dr. N.Jansirani, Associate Professor & Head, Department of Mathematics, Queen Mary's College, Chennai.	"A Methodical Study on the Algebraic and Topological Characterizations of Watson Crick Automata using imprecise set theoretical notions"	28.07.2025





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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