TKM COLLEGE OF ENGINEERING, KOLLAM

# ALUMNI TIMES

A PUBLICATION FROM TKMCE ALUMNI ASSOCIATION

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## OUR FOUNDER

# Janab Thangal Kunju Musaliar

"The visionary leader who walked far ahead of his times"

"If all the rich men of our country had come forward like Janab Musaliar many of our problems would have been solved
Dr. Rajendra Prasad ( The First President of India)

# MESSAGE FROM THE CHAIRMAN

I am delighted to know that the Alumni Association of TKM College of Engineering is releasing the Alumni Times, a valuable platform that reflects the enduring bond between the institution and its alumni.

The Alumni Times is more than a collection of memories and milestones, it is a chronicle of shared experiences, professional growth and the continuing engagement. Such initiatives strengthen the alumni network and foster meaningful collaboration for the academic and infra-structural development of the college. I appreciate the efforts of the Alumni Association and the editorial board for bringing out the publication. I am sure that this will further reinforce of belonging among alumni and encourage active the sense participation in the future programs of TKM.

I extend my warm wishes to the Alumni Association for all its endeavors.

Jb. Shahal Hassan Musaliar
Chairman, Governing Body

# MESSAGE FROM THE PRINCIPAL

It is with immense pride and joy that I present an overview of the significant progress and noteworthy achievements of our institution during the academic year 2025–26. This year also reflects the sustained commitment of TKM College of Engineering (Govt. Aided & Autonomous), Kollam, to academic excellence, research advancements, global engagement, innovation, and sustainable development.

A moment of profound honour for the entire TKM fraternity was the conferment of the prestigious 'Kerala Sree' Puraskaram 2025 on Janab Shahal Hassan Musaliar, the Chairman of the TKM College Trust, in recognition of his visionary leadership and long-standing contributions toward strengthening academic quality and research infrastructure.

Our students continued to demonstrate exemplary academic performance. Academic rigor and focused mentoring resulted in extraordinary outcomes in national-level examinations, with over 180 students qualifying GATE 2025. Notably, Mr. Muhammed Haleem (Electronics & Communication Engineering) secured All India Rank 20, and Mr. Akshay V (Computer Science and Engineering) secured All India Rank 45, reaffirming the academic strength and preparedness of our students. The year also witnessed strong academic performance across programmes, including outstanding achievements from recent batches such as Ms. Akshara Suresh of the 2021–2025 Civil Engineering cohort, who secured the highest CGPA of 9.79, exemplifying the scholastic dedication and merit TKMCE consistently nurtures.

Placement activities continued to show sustained growth and industry recognition. More than 348 students were placed through 447 job offers and 66 internships, supported by an average package of ₹5.7 LPA, with top offers reaching ₹19.5 LPA in the academic year 2024-25. For the current academic year, the highest CTC is 21 LPA with average CTC 5.96 LPA so far. A student has taken up internship with the current highest stipend of Rs. 80000 per month too. These outcomes highlight the relevance and industry alignment of our academic offerings and skill development initiatives.

Our global engagement efforts were strengthened through major international collaborations, including the Letter of Intent with the University of Newcastle, Australia on 18 February 2025 for immersion programmes, internships, and faculty exchange; the MoU with the University of Oulu, Finland signed on 7 April 2025 for collaborative research, academic mobility, and joint learning opportunities; and the MoU with Tokyo Metropolitan University (TMU), Japan, enabling research partnerships and exchange programmes. As part of these MoUs, two faculty members of the Department of Mechanical Engineering, Dr. Rijo Jacob Thomas and Dr. Baiju V, visited the University of Newcastle and engaged in collaborative research. 50 students of Civil Engineering completed internship as part of MoU with TMU, Japan.

In line with our aim for redefining the learning experience by innovation-driven academics, the college inaugurated the Drone Application Robotic Centre (DARC) on 3 July 2025, offering state-of-the-art facilities for drone technology development, robotics research, and interdisciplinary project-based learning. A major milestone in our sustainability initiatives was the advancement of the Green Campus Solar Energy Project, with Phase I successfully installing a 100 kWp solar power plant on the Mechanical and Architecture Blocks. This project—developed with the valuable support and technical expertise of our alumni—marks a significant step toward clean energy adoption and provides students with experiential learning in renewable energy systems. The Department of Mechanical Engineering developed a electric vehicle, an e-pickup auto, which could attract order from industry. A team of brilliant students of Electrical & Electronics Engineering developed a marketable e-bicycle, 'ASKEE', which they are looking for funding.

This year witnessed more energetic engagement of our alumni with our campus in multiple ways. The 'Campus Y Industry Connect' is a special initiative of few alumni entrepreneurs of 1989 batch, with an objective of handholding young aspiring entrepreneurs, and establishing minimum 6 startups of students within 3 years. Now 10 startup ideas are under grooming. I sincerely appreciate the generous involvement of our global alumni in offering placements, internships and professional guidance to the young ones in the campus.

The year was further enriched by academic and cultural engagements, including the organization of the 10th International Conference on Human Values in Higher Education in December 2025, reinforcing our commitment to value-oriented education. Our college has been recognized as a 'Nodal Centre for Universal Human Values' by AICTE. Our dedication to inclusivity and innovation was further strengthened through initiatives such as the Tink-Her-Hack Impact Meet 2025, empowering women in technology, while student well-being and societal responsibility were advanced through impactful programmes such as "Drop the Dope: A Fight Against Addictions." We have also conducted a series of counselling sessions for entire staff of our college on 'Counselling and Engagement with Gen-Z', under the coordination of our Campus Consultant Psychologist, Dr. Shilpa Balagangadharan.

Collectively, these developments highlight the unwavering commitment and collaborative efforts of our students, alumni, staff, management and institutional partners. As we move forward, we remain dedicated to nurturing competent professionals, ethical leaders, and socially responsible citizens capable of contributing meaningfully to resolve global challenges.

Dr. Sadiq A
Principal in-charge TKMCE

# MESSAGE FROM TKMCE ALUMNI CHAIRMAN

It is both an honour and a privilege to share this message in the pages of the Annual Alumni Times. As we reflect on the year that has passed, we are reminded of the remarkable progress achieved through purposeful collaboration, shared responsibility, and a deep-rooted commitment to our alma mater. The initiatives undertaken during this period reflect not only strategic vision but also the enduring spirit of service that defines the Global TKM Alumni community.

I wish to formally acknowledge the exemplary commitment and collective leadership demonstrated by the Executive Committee, whose strategic vision and collaborative approach translated plans into meaningful action. The guidance, encouragement, and institutional support extended by TKM College of Engineering and the college authorities have further strengthened our efforts and enabled seamless execution.

Student-centric development has always remained a defining priority. Alumni-supported scholarships have been extended to meritorious students facing financial constraints, providing not only essential assistance but also renewed confidence, aspiration, and motivation to pursue academic excellence with determination.

Complementing this effort, this Committee has also extended meaningful support to deserving faculty members through targeted endowments and professional development assistance, enabling them to enhance their academic capabilities, research pursuits, and long-term career goals—thereby strengthening the institution's intellectual foundation.

This committee also has the privilege of spearheading the Campus Solar Project, an ambitious and futuristic initiative aimed at promoting sustainability and renewable energy adoption within the campus. This project reflects our collective commitment to environmental responsibility, long-term cost efficiency, and the cultivation of eco-conscious values among future engineers.

Another significant area of focus has been the development of a comprehensive TKM Global Alumni Website, envisioned as a dynamic digital platform to strengthen alumni engagement worldwide. A key feature of this initiative is a dedicated job portal, designed to facilitate career opportunities, professional networking, and mentorship by effectively connecting students, fresh graduates and alumni across industries and geographies. This platform aspires to serve as a living bridge between generations of TKM-ites, fostering collaboration and mutual growth.

I once again express my deep gratitude to all our alumni for their generosity, commitment and enduring bond with TKM College of Engineering. Your continued support has been fundamental to the accomplishments we celebrate today.

Together, let us continue to strengthen a vibrant, inclusive and forward-looking TKM alumni network-one that inspires, supports and empowers future generations of engineers, while upholding the proud legacy of our alma mater.

**Midhun S Kumar**
Alumni Chairman, TKMCE

# MINUTES OF THE 59TH ANNUAL GENERAL BODY (AGM) MEETING HELD ON JANUARY 26, 2025

The 59th Annual General Body Meeting of the TKM College of Engineering Alumni Association was held on 26th January 2025 at 10:00 AM in the college auditorium. The meeting commenced with a silent prayer, followed by a minute of silence in remembrance of departed members.

Er. Mohammed Khais Musaliar, Chairman of the Alumni Association, delivered the welcome address. Presiding over the meeting, Dr. Sajeeb R, Principal of TKMCE, highlighted the college's recent milestones in academics, sports, and research.

The AGM was formally inaugurated by Janab Shahal Hassan Musaliar, Chairman of the TKM Trust. In his inaugural address, he expressed deep gratitude and appreciation for the alumni's continued support and their role in elevating the institution's stature.

Janab T.K. Jalauddinin Musaliar, Treasurer of the TKM College Trust, officially released the latest edition of Alumni Times.

Dr. Mathew Skaria, Secretary of the Alumni Association, presented the minutes of the 2023–24 AGM, which were approved unanimously. He also provided a concise summary of the activities undertaken during 2024–25, including:

1. The Alumni PTA Merit Evening was conducted on 23rd August 2024 and honored meritorious students and rank holders. The event was inaugurated by Er. Asha Ashokan (Deputy Chief Engineer, KSEBL)
2. The 1997 batch contributed ₹25 lakhs for the renovation of the IEDC. The 1997 batch initiative SEEDS 97, was inaugurated by Hon. Minister for Finance, Sri K. N. Balagopal.
3. TKM CE 2002 batch contributed nearly 2 lakhs for the Scholarship
4. Club Millennium 60 Plus provided financial aid to three deserving students, also contributed ₹50,000 for Wayanad flood relief efforts.
5. A contribution of ₹2 lakhs was provided to support Abhishek S. Nair, a student injured during an Electric Vehicle (EV) competition.
6. The Alumni Association supported the UHV Conference and ROBOCUP 2025 by the Centre for Robotics with a contribution of ₹50,000 each.
7. Alumni extended financial support to students for their participation in the Go Kart Challenge and SAE Baja Competition
8. The EEE 2001 batch donated ₹1,65,000 to establish a fixed deposit for the "Best Project" award and an additional ₹80,000 FD in honor of Prof. Suresh Kumar.
9. R Suman S. contributed ₹1,60,000 as a fixed deposit.

The Secretary acknowledged the valuable contributions of Dr. Ratnakumar S, Dr. Nadeera Beevi, Prof. Abhijith, and Dr. Sudheer A in the successful publication of Alumni Times 2024–25. The audited accounts for the year 2023–24 was presented & approved.

The meeting honored distinguished alumni:

- Er. Antony K. Joseph (1984 Mechanical), Managing Director, BRAHMOS Aerospace, Thiruvananthapuram
- Mr. Bejoy Bhasker (1987 Mechanical), Director (Technical), Cochin Shipyard Ltd.

The 1975 batch alumni were felicitated during the function. A total of 50 members from the Civil, Mechanical, and Electrical branches were honored with Ponnada.

# Congratulations

# KERALASREE SHAHAL HASSAN MUSALIAR

*Heartiest congratulations to Janab Shahal Hassan Musaliar, Chairman of TKM College of Engineering (TKMCE), on being honored with the prestigious Kerala Sree Puraskaram 2025. This well-deserved recognition reflects his exemplary leadership, visionary contributions to education, and unwavering commitment to societal development.*

*His dedication to academic excellence, ethical values, and institutional growth has been truly inspiring to students, faculty, and the entire educational community. We sincerely appreciate his continued efforts in shaping a brighter future through quality education and social responsibility.*

*TKM college of engineering & its alumni wishes him continued success, good health, and many more accolades in the years ahead.*

# TKMCE ALUMNI ASSOCIATION OFFICE BEARERS 2025-26

Dr. Sadiq A
*President*
(1995 Mechanical)

Midhun S Kumar
*Chairman*
(2000 Civil)

Dr. Mathew Skaria
*Vice President (Internal)*
(1999 Mechanical)

Prof. Poornima Kurup
*Vice President (Internal)*
(2003 Architecture)

Shahina T N
*Secretary (Internal)*
(2000 Electrical)

Dr. Jesna Mohammed
*Treasurer*
*(2003 Mechanical)*

Dr. Sudheer A
*Dean-Alumni & International Affairs*
*(1995 Production)*

Dr. Reshna S
*Exe. Committee (Internal)*
(Electronics)

Prof. Raiza Rasheed
*Exe. Committee (Internal)*
(2013 Chemical)

Dr. Leena R
*Exe. Committee (Internal)*
*(1993 Mechanical)*

Dr. Ajukumar V N
*Exe. Committee (Internal)*

Er. M. Shahul Hameed
*Exe. Committee (Internal)*
(1973 Electrical)

Prof. Shanavas T.N.
*Exe. Committee (Internal)*
(1997Electrical )

Er. Hareesh M V
*Vice President (External)*
(2000 Mechanical)

Dr. S Ratnakumar
*Vice President (External)*
(1978 Electrical)

Er. Jimmy Joseph
*Secretary (External)*
(2000 Production)

Er. Rakesh Raj
*Exe. Committee (External)*
(2001 Architecture)

Er. Haris Aboobaker
*Exe. Committee (External)*
(1999 Mechanical)

Er. E M Ashraf
*Exe. Committee (External)*
(1969 Mechanical)

Er. Sreekumar B Nair
*Exe. Committee (External)*
(1987 Electrical)

Er. Randeep Sasidharan
*Exe. Committee (External)*
(2000 Electronics & Communication)

Er. Lekshmi Raj
*Exe. Committee (External)*
(2000 Civil)

Er. Ajeesh Sathar
*Exe. Committee (External)*
(2000 Mechanical)

Er. Varsha Mohan
*Exe. Committee (External)*
(2000 Electrical)

Er. Abdul Vahab A
*Exe. Committee (External)*
(1997 Electrical)

Er. Vimal Prakash
*Exe. Committee (External)*
(1982 Electrical)

## FROM THE SECRETARY'S DESK

It is a pleasure to connect with you through this edition of Alumni Times. The year 2025–26 has been one of steady progress for TKM College of Engineering, supported greatly by the continued involvement of our alumni community. Across departments, alumni contributed to academic enrichment by delivering expert lectures and industry-updated sessions, helping students stay aligned with evolving technologies and professional expectations.

Alumni participation also strengthened key institutional initiatives, including the growth of the Drone Application Robotic Centre (DARC), where technical guidance from alumni added value to student projects and research activities. Support from alumni was equally meaningful in advancing the Green Campus Solar Energy Initiative, enabling the successful completion of Phase I of the 100 kWp solar power plant, a significant step toward sustainability and experiential learning on campus.

This year also witnessed inspiring alumni–student interactions, highlighted by the 1995 batch's 30th-year reunion, which featured a panel discussion and an engaging session with students, and the Silver Jubilee reunion 2000 batch interactive experience sharing session, where alumni shared insights on innovation, mentorship, and global engineering careers. These interactions created valuable learning experiences for current students.

Alumni chapters continued to engage through mentoring, career guidance and support for departmental initiatives, offering students a closer connection to real-world engineering pathways. As we move forward, I invite all alumni to remain connected and continue contributing to the progress of our institution. Your support and collaboration remain essential to our collective growth.

**Prof. Shahina T N**
Secretary, TKMCE Alumni Association

## ALUMNI MERIT EVENING 2025

The Alumni Merit Evening 2025, jointly organised by TKM College of Engineering, the Alumni Association and the Parent–Teacher Association (PTA), was held on 19 September 2025 at the College Auditorium. The event was conducted to honour meritorious students and distinguished faculty members for their commendable achievements and contributions during the previous academic year, reinforcing the institution's culture of excellence and recognition.

The Chief Guest, Mr. Varghese Cherian, Head of Technology Services, UST, graced the occasion with an inspiring talk on career development, motivating students to pursue knowledge and continuous learning. The Welcome Address was delivered by Prof. Shahina T. N., Secretary of the Alumni Association, who extended a warm welcome to the dignitaries, faculty members, awardees, parents and students, formally marking the commencement of the programme. The Presidential Address by Jb. Shahal Hassan Musaliar, Chairman, TKM Trust, emphasised the importance of nurturing merit, discipline, and values in higher education. This was followed by the Principal's Address by Dr. Sadiq A, who spoke about the college's sustained efforts to enhance academic quality, promote student development and strengthen institutional initiatives.

The event was then inaugurated with the Inaugural and keynote address by the Chief Guest, Mr. Varghese Cherian. He spoke about the teaching–learning process and its role in shaping career paths, emphasising the value of strong foundational knowledge, continuous upskilling and adaptability in today's dynamic technological landscape. His message encouraged students to pursue lifelong learning as a means to meaningful professional growth. The highlight of the programme was the honouring of meritorious students, celebrating their dedication and achievements over the past year. Felicitations were led by Jb. T K Jalaluddin Musaliar, Treasurer, TKM Trust, Dr. Sudheer A, Dean (Alumni Affairs) and Adv. Niyas A. Salam, PTA Vice President and Government Pleader, who commended the awardees for their exemplary contributions. A total of 205 students and 11 faculty members were recognised during the ceremony.

The programme concluded with the Vote of Thanks delivered by Prof. Raiza Rasheed, Treasurer, PTA, TKMCE, who expressed heartfelt gratitude to the management, dignitaries, organisers, alumni members, and participants for their support and contributions. Alumni Merit Evening 2025 stood as a proud celebration of achievement, strengthening the enduring bond between the college, its alumni, faculty, students and parents.

# ALUMNI COLLABORATION WITH KALANDOOR FOR RESEARCH & INNOVATION

Principal Dr. Sadiq and Dean of Alumni Affairs Dr. Sudheer visited distinguished alumnus and Chairman of Kalandoor Group, Mr. Kalandoor (Production Engineering, 1988 batch), at his Dubai Investment Park office to explore research and development collaborations with TKM College of Engineering.

The visit builds upon an ongoing association that began during a 2023 meeting involving Jb. Shahal Hassan Musaliar, Sri. Khalid Musaliar, Dr. M. Haroon, and Dr. S. Ayoob, following the UAE Alumni Meet.

During the discussions, the proposal to establish a "Kalandoor Innovation Centre & Research Park" on campus received strong support. Mr. Kalandoor also expressed willingness to recruit core engineering graduates annually, emphasizing the need for innovative young engineers in his companies. As a gesture of support for institutional sustainability, he handed over a cheque of ₹5 lakh towards the Solar Green Campus project. The meeting proved highly productive and opened new avenues for alumni engagement, innovation-driven partnerships, and institutional growth.

# TKM ALUMNI IN JAPAN ENGAGE WITH INSTITUTIONAL DELEGATION

A delegation from TKM College of Engineering comprising Principal Dr. R. Sajeeb, Dean (Alumni & International Collaborations) Dr. Sudheer, and Dean (Research) Dr. Priya K. L. held constructive interactions with TKM alumni in Japan on 18 May 2025. The visit is aligned with TKMCE's internationalization efforts and precedes the formal MoU signing with Tokyo Metropolitan University, scheduled for 20 May 2025.

The alumni participants included Sri. Venugopal Pullat Kodavath (2000 Civil), Sri. Ginesh Gopinathan (2003 Mechanical), Sri. Dennis Babu (2011 ECE), Sri. Ajay Karnavar (2013 Chemical), and Sri. Karthik S (2017 Civil). The meeting, hosted over lunch at Shibuya, Tokyo, provided a platform to discuss opportunities for academic collaborations, student internships, and alumni engagement in Japan. The alumni also presented mementos to the visiting team as a gesture of appreciation.

Other alumni - including Sri. Sam Mathew, Sri. Anup, and Sri. Regin - who could not attend due to prior commitments, conveyed their greetings and support.

The engagement marks a meaningful step in expanding TKMCE's global alumni network and fostering international academic partnerships.

# BRISBANE ALUMNI HOST FAMILY MEET WITH TKMCE DELEGATION

The TKM College of Engineering alumni community in Brisbane, Australia, hosted a warm family dinner meet in honour of Principal Dr. Sadiq A and Dean (Alumni Affairs) Dr. Sudheer A during their recent visit to the city. The event was meticulously coordinated by alumni Vineeth (2006), Sreekanth (2006), Krishnakumar (2006), and Manu (1994), with support from several others.

The gathering also featured special guests, including Sri. Lal Abdul Salam, a UAE-based entrepreneur and distinguished alumnus, who shared valuable insights on entrepreneurial growth and global business opportunities. Senior alumnus Er. Surendran Nair (1977 batch) enriched the evening with reflections on his professional journey and early TKMCE memories.

The visiting TKMCE team expressed appreciation for the strong support pledged by the alumni towards the college's ongoing research and development initiatives. The evening was marked by meaningful conversations, nostalgia, and a sense of community, further strengthening the bond between the institution and its global alumni network.

## SEATTLE ALUMNI HOST TKMCE DELEGATION FOR ENGAGEMENT MEET

The TKMCE Alumni USA - Seattle Chapter convened for an engagement meeting in Seattle on Saturday, 19 April 2025, marking an important step in strengthening alumni presence on the U.S. West Coast.

The TKMCE delegation - comprising Dr. M. Haroon (Director, Alumni Operations, TKM College Trust), Er. Tariq Musaliar (Member, TKM College Trust), Dr. S. Ayoob (Executive Director), and Dr. A. Sudheer (Dean, Alumni Affairs) - was warmly welcomed by around 20 alumni from Seattle and neighboring regions.

The meeting commenced with a welcome address by Er. Rajesh Nanoo (1995 CSE). Dr. Haroon outlined the objectives of the gathering, followed by Dr. Ayoob, who conveyed greetings and a message from the Hon. Chairman Er. Shahal H. Musaliar, and briefed the attendees on recent institutional developments, including the conferment of Autonomous Status by the UGC. Dr. Sudheer highlighted key initiatives led by global TKM alumni chapters and presented a roadmap for future engagement.

Discussions focused on strengthening alumni–student–faculty linkages through structured initiatives such as online industry sessions, student mentorship programs, and a centralized Alumni Portal for networking and event updates. Suggestions included forming department-specific LinkedIn groups, organizing quarterly chapter meets, and ensuring consistent outreach to foster a vibrant alumni ecosystem.

The event was coordinated by a dedicated team comprising Er. Rajesh Nanoo (1995 CSE), Er. Rajesh R. Nair (2005 CE), and Er. Saibee Kollarmalil (1995 CSE).

## TKMCE DELEGATION EXPLORES RESEARCH COLLABORATION AT UNIVERSITY OF AUCKLAND

A delegation from TKM College of Engineering, led by Principal Dr. Sadiq A. and Dean (Alumni Affairs) Dr. Sudheer A., visited the University of Auckland to explore academic and research collaboration opportunities. The TKMCE team held discussions with professors and researchers from multiple departments, during which the Principal delivered a presentation on the institution's ongoing research, development, and innovation initiatives.

The meetings focused on potential collaboration in areas such as additive manufacturing, computational fluid dynamics, mechatronics, and composite materials. The possibility of full-time student internships (4–6 months) was also discussed and positively received by the University of Auckland representatives.

The University of Auckland team comprised Dr. Simon Bickerton (Head of Department, Faculty of Engineering & Design, Mechanical & Mechatronics Engineering), Dr. Olaf Diegel (Professor, Mechanical & Mechatronics Engineering), Dr. Krishnan Jayaraman (Professor, Mechanical & Mechatronics Engineering), Dr. Lal Busher (Alumnus, Professor in Additive Manufacturing), Dr. Ahmed (Research Associate, Aerospace Engineering), along with researchers from Chemical Engineering and Additive Manufacturing, and staff members Smt. Jesna and Mr. Alex.

TKMCE alumnus and New Zealand-based entrepreneur Mr. Adarsh also joined the delegation during the visit. The visiting team toured the City Campus, including its classrooms, library, and sports facilities, gaining insights into the university's academic environment and infrastructure. The visit is expected to lead to fruitful outcomes, with both institutions exploring the possibility of signing an MoU in the near future.

## TEXAS ALUMNI HOST TKMCE DELEGATION IN AUSTIN

The TKMCE Alumni USA – Texas Chapter convened for a meeting in Austin on Sunday, 13 April 2025, bringing together approximately 40 alumni from across the state.

The TKMCE delegation, comprising Dr. M. Haroon (Director, Alumni Operations, TKM College Trust), Dr. S. Ayoob (Executive Director), and Dr. A. Sudheer (Dean, Alumni Affairs), was warmly welcomed by the attendees.

The session commenced with a welcome address by Er. Sanju John (1995 ECE), following which Dr. Haroon briefed the gathering on the objectives and expectations of the visit. Dr. Ayoob provided an update on developments at TKMCE, particularly following the conferment of Autonomous Status by the UGC, and highlighted improvements in academic processes and institutional planning. Dr. Sudheer presented an overview of initiatives led by TKM alumni chapters worldwide, emphasizing opportunities for structured alumni engagement.

The alumni expressed keen interest in the college's academic and research progress, especially efforts aimed at transforming TKMCE into a research-centric, industry-driven institution. The discussion underscored the importance of strengthening ties between alumni and the campus to support innovation, internships, and industry collaborations.

The event was coordinated by a dedicated volunteer team comprising Er. Mahesh Nair (1996 EEE), Mr. & Mrs. Er. Sanju John (1995 ECE), Er. Velupillai (1988 ECE), Er. Sankunni (2006 ME), Er. Sebi Chacko (1998 ME), and Er. Aswin George (2020 ME), who managed the arrangements at short notice.

The four-hour interactive session concluded at 3:00 PM, with Er. Mahesh Nair delivering the vote of thanks.

## TKMCE DELEGATION PARTICIPATES IN ROUNDTABLE AT INDIAN CONSULATE, SYDNEY

A delegation from TKM College of Engineering comprising Principal Dr. Sadiq and Dean (Alumni Affairs) Dr. Sudheer participated in a roundtable session at the Indian Consulate in Sydney, held with the Consul General of India, Dr. S. Janakiraman, and his team. The session was facilitated by Sri. Irfan Malik, Chair of the India–Australia Business Council.

The discussions focused on academic and entrepreneurial collaboration opportunities between India and Australia, with emphasis on the favourable ecosystem currently supporting mutual growth, technology exchange, and innovation-driven partnerships.

The delegation also attended a startup pitching session featuring selected Indian startups from Karnataka, showcasing innovations in the fields of Robotics & AI, Agriculture, and Biomedical Engineering.

The engagement marked an important step in connecting TKMCE to emerging international academic and industry ecosystems, fostering future collaboration opportunities.

# TKMCE DELEGATION MEETS ALUMNI IN CHICAGO

The TKM College of Engineering delegation held a detailed interaction with prominent alumni in Chicago during a dinner meeting hosted on Saturday, 12 April 2025. The visiting team comprised Dr. M. Haroon (Director, Alumni Operations – TKM College Trust), Dr. S. Ayoob (Executive Director), and Dr. A. Sudheer (Dean, Alumni Affairs & International Collaborations).

The alumni hosts, representing multiple batches and branches, welcomed the delegation and engaged in constructive discussions on the current trajectory of the institution. The TKM team briefed the alumni about the college's progress following the conferment of Autonomous Status by the UGC, along with the academic, administrative, and infrastructural challenges associated with the transition.

The meeting concluded with a mutual resolve to revitalize the Chicago Alumni Chapter, strengthen engagement, and extend support to the institution's efforts to transform TKMCE into a Centre of Excellence. Alumni members expressed enthusiasm for collaborative initiatives, mentorship opportunities, and future networking activities.

# TKMCE 2005 BATCH REUNION - THIRIKE'25

The Batch of 2005 celebrated their 20-year reunion (Thirike'25) on July 26, 2025, with more than 200 alumni and 70 teachers in attendance. The event began with an inauguration by Janab Shahal Hassan Musaliar, Chairman of the TKM Trust. In a heartfelt gesture, the alumni presented a ₹5 lakh cheque to fund scholarships for deserving students and held a moving Guruvandanam to honor their teachers.The celebration continued into the night at The Leela Raviz, Ashtamudi. The stage came alive with performances by the iconic band Avial and the sensational Job Kurian. The batch's own talented music band and dancers also delivered an electrifying performance, making it an unforgettable night of nostalgia, music, and pure magic.

# Y2K BATCH CELEBRATES SILVER JUBILEE REUNION"VEENDUM THIRIKE"

The 1996–2000 alumni (Y2K Batch) of TKMCE celebrated their Silver Jubilee Reunion, "Veendum Thirike," on July 18–19, 2025, at The Leela Raviz in Kollam and the TKMCE campus. The two-day gathering was filled with emotional reunions, laughter, and memories, reconnecting batchmates and rekindling the spirit of their student days. Alumni arrived with their families, setting the tone for a nostalgic and heartwarming celebration. The first day featured a red-carpet welcome, traditional chendamelam, and a night of cultural performances by alumni, ending with a festive dinner and DJ party. The second day shifted to the college auditorium, where dignitaries including Dr. Shahal Hassan Musaliar and Dr. Sadiq A. addressed the gathering. A key highlight was the batch's generous donation—₹4,40,000 towards a solar project and ₹60,000 for scholarships—presented by alumni representatives, followed by a Guruvandanam, group photo, and campus tour that brought back fond memories. The reunion concluded with a grand finale at The Leela Raviz, featuring a vibrant cultural show by current students and electrifying performances by Vidhu Prathap and Arya Dayal. The evening was a joyful celebration of the past and future, wrapping up a truly magical event that honored the legacy of TKMCE and the enduring bond of the Y2K batch.

# 1995 BATCH HOSTS PANEL DISCUSSION AND STUDENT INTERACTION DURING 30TH REUNION

The 1995 alumni of TKM College of Engineering organised a panel discussion and student interaction on 11th July 2025 as part of their 30th year reunion. The event was moderated by Anoop P Ambika (CEO, Kerala Startup Mission) of 1995 batch. The distinguished panel featured Kiran (Principal ASIC Manager, Amazon), Binny T R (Group Head, VSSC, ISRO), Sanju Gopal (Associate Vice President & Centre Head, Quest Global Engineering Services), Jino George (Group Captain, Indian Air Force), Manoj P L (Senior Specialist – Energy & Sustainability, Abu Dhabi National Oil Company), Harish Kumar (Partner/Director, CRMantra, Inc.), Jimmy Mathew (Director, Goodson Software Solutions, Austria), Sujata Menon (Vice President – Delivery, Mphasis) and Saiju Purushothaman (Chief Engineer, Kerala Water Authority). The session offered valuable insights, career guidance, and inspiration, leaving a lasting impact on the students.

# REPORT OF CLUB MILLENNIUM TKM 60 PLUS - 2025

The 15th Annual General Body Meeting was held on 14th June 2025 at Hotel Beach Kollam. The following members were elected for the Managing Committee for the year 2025-26.

Advisor : Er. John Varghese
President : Er. P N Veena ( 81 E)
Vice President : Dr. Thomaskutty Mathew ( 70 E )
Secretary : Er. Salim Narayanan (79 E )
Joint Secretary : Er. Vimal Prakash ( 82E )
Treasurer : Er. Sreekumar B (85 E )

**Managing Committee Members**

1. Er. Joseph Thomas ( 76 M )
2. Er. Sreekumar B Nair ( 87 E )
3. Er. Presenna Kumar B ( 85 ECE )
4. Er. Thomson Mathew ( 84 M )
5. Dr. S Ratnakumar (78 E ) Bulletin Editor
6. Er. Beena S ( 84 ECE ) Cultural Activities

Managing Committee Meetings are held every month on a regular basis to ensure effective governance and continuous tracking of activities. The Regional Committees and Task Force Committees were constituted to drive initiatives and member engagement. Online Talk Series such as " Healthy Longevity" by Dr. Shanker Ram and " Hridayapoorvam" by Dr Jose Chacko Periyappuram were conducted. Pranayama classes by Er. Kesavadas and Prof. Ambuja Kumari for the members and families is continuing. Various online competitions such as drawing competitions, literary competitions, reels competition, pets competition fostered creativity and camaraderie among members and families. The Harmony Onam Bulletin was released online by the renowned playback singer, Lathika Teacher on 21 October,2025. This was followed by Cultural Programmes as a part of our Onam Celebration. The Bulletin was of high standard, covering articles and artwork by our esteemed members and families. The First Zonal Meeting was conducted in Trivandrum on 29 August, 2025 followed by the second Meeting in Kottayam on 1st November, 2025. More Zonal Meetings will be conducted in the coming months. An exciting tour programme to Rajasthan was conducted from 22nd to 29th November, 2025 under this year's theme, " Searching the Soul of India". We admitted 38 new members to our Club during the report period. Voluntary contributions from members toward the working fund are still continuing. TKM 60 plus honoured Janab Sahal Hassan Musaliar at his office on achieving the prestigious Kerala Shree Award. As we look forward to 2026, we reaffirm our commitment to our mission of renewing relationship and spreading harmony. Wishing all our members and their families a happy and prosperous New Year 2026.

Salim Narayanan
Secretary, Club Millenium, TKM 60 Plus

# PARENT TEACHER ASSOCIATION ACTIVITY REPORT FOR THE YEAR 2024-2025

The Parent-Teacher Association (PTA) of TKM College of Engineering operates as a statutory body under the provisions of the Travancore-Cochin Literary, Scientific, and Charitable Societies Act, 1955. The association is dedicated to enhancing the welfare of students, teachers, and the institution as a whole.

## Financial Assistance to Students

The PTA of TKM College of Engineering has extended comprehensive financial support across a range of initiatives aimed at fostering academic, cultural, and professional growth among students. Notable contributions include funding for the TEDx Program 2024 to nurture innovative idea-sharing platforms and providing aid for VEGHA TKMCE, a design competition on electric two-wheelers. Students aspiring to excel in management secured support for attending Indian Institutes of Management interviews, while TKM MUN'24 benefitted from sponsorship for addressing global issues in conferences such as the UN Security Council and the General Assembly. Collaboration with the Hult Prize competition, including events like "ScribbArt," was facilitated through the ISTE Student Chapter. Social responsibility initiatives under STEPS TKMCE received financial backing, alongside cultural and technological integration efforts in HESTIA 2024. Contributions were made towards acquiring advanced equipment such as 3D printers and Smart TVs for the Innovation and Entrepreneurship Development Centre (IEDC) to nurture young entrepreneurs. The Society of Automotive Engineers (SAE) India TKMCE activities received funding to encourage robotics and engineering excellence. Financial aid was provided to NSS TKMCE to enable charitable activities, fostering a culture of social responsibility among students. Additionally, the PTA supported the Alumni Merit Evening to celebrate academic achievements and the Student Induction Program 2024 for orienting first-year students, and Kerala Robocup 2025 exemplifying a commitment to holistic student development.

## Support for College Facilities

The PTA has made significant financial contributions to enhance college infrastructure and support services, demonstrating a strong commitment to the institution's overall development. Contributions were extended to the Facilities Management Committee to maintain and upgrade campus amenities. The procurement of a desktop for the college office and UPS batteries for the Networking Centre reflects the PTA's dedication to enhancing administrative and technical efficiency. Faculty travel expenses for industrial training and visits were covered, ensuring effective experiential learning opportunities for students. The PTA also provided partial remuneration for guest faculty, technical staff, and system administrators to strengthen the teaching-learning process and funded salaries for part-time sweepers, ensuring cleanliness and hygiene across the campus. These initiatives collectively enhance the operational efficiency and academic environment of the college.

## Financial Assistance to Departments

The PTA of TKM College of Engineering has extended targeted financial support to various departments, enabling them to enhance their academic and infrastructural capabilities. The Electronics and Communication Engineering (ECE) Department received a loan to establish a Programmable Logic Controller (PLC) training station and procure desktop PCs, bolstering hands-on learning and computational resources. The Civil Engineering Department benefitted from funds to install air conditioning units, improving the comfort and efficiency of academic spaces. Additionally, financial autonomy was ensured for the Heads of Departments to facilitate departmental initiatives, empowering them to undertake innovative projects and address specific needs. These contributions reflect the PTA's commitment to fostering a helpful learning and working environment across all departments.

## Conclusion

The year 2024-25 showcased the unwavering cooperation between parents and teachers, enabling students to derive maximum benefit from their campus life. Regular executive committee meetings facilitated fruitful discussions on academic and non-academic matters, significantly contributing to the institution's mission of societal service.

We extend our heartfelt gratitude to the Principal, executive committee members, faculty, and parents for their dedicated support in achieving the goals of the Parent-Teacher Association.

# CAREER GUIDANCE AND PLACEMENT UNIT (CGPU) TKMCE

### TKMCE 2024 campus placements- 448 job offers from 107 companies

The 2024–2025 batch of engineering students at TKM College of Engineering (TKMCE) has set a new benchmark in the institution's placement history. With the placement process for the academic year now concluded, the graduating class has secured a total of 448 job offers from 107 companies, reflecting the strong industry demand for TKMCE graduates.

Notably, Eight International Companiesparticipated in the recruitment drive, collectively extending 34 overseas job offers to students. This achievement highlights the growing global recognition of TKMCE talent and underscores the consistent efforts of both students and the institution in maintaining high academic and professional standards.

### Key Highlights :

- Achieved the highest-ever average Cost to Company (CTC) of ₹5.7 LPA.
- Recorded a highest CTC of ₹19.5 Lakhs per annum, offered to our students.
- 34 students secured international placements with MNCs abroad, earning an impressive average package of ₹7.9 LPA, reflecting the growing global demand for TKMCE graduates.
- Out of a total of 448 offers, 159 students received packages exceeding the average CTC of ₹5.7 LPA.

A significant number of students gained valuable hands-on experience through internships with leading corporate organizations, with monthly stipends ranging from INR 10,000 to INR 50,000. These internships offered meaningful industry exposure and helped students enhance their technical and professional skills, thereby making them more competitive in the job market.

The 2024–25 recruitment process witnessed strong hiring momentum across high-growth sectors, with prominent participation from industries such as Data Science, Machine Learning, Artificial Intelligence, Data Analytics, Manufacturing, Construction, Marine Services, and Banking.

Major recruiters like, Analog Devices, CMS Dubai, Elegant Marine, Envestnet, Equifax, ESAF, Experion, EY, Federal Bank, FlawServe, HCL Tech, IBM, Ignitarium, IQVIA, Juspay, KeyValue, KPMG, L & T, Litmus 7, MRF,Mahindra and Mahindra, Mitsogo. NEST, Oracle, Pay3, Plant Lipids, Reliance Industries, SaH Oman, Schlumberger, Schwing Stetter, Sedai, Sobha, Dubai, SOTI, South Indian Bank, TCS, Toshiba, TRANE Technologies, TurnB, UST, Vanenburg (rappit), walkaroo, Yokogawa Etcvisited our campus and offered a good number of job offers to our students.

# TKMCE-NSS UNITS ACTIVITY REPORT

NSS TKMCE is a dynamic organization dedicated to the holistic development of students by fostering personality and character through voluntary community service. It operates two active units, 174 and 262, each comprising 50 committed volunteers who actively participate in a wide range of meaningful social initiatives throughout the academic year.

By applying their technical knowledge to real-world challenges, the volunteers provide valuable insights and practical solutions that benefit the community. To ensure effective functioning and better coordination, the volunteers are systematically organized into specialized cells and wings, such as the Blood Cell, NRPF Cell, Energy Cell, Pace Cell and KTU Care Wing, as well as the Technical, Community, Education, Green Campus, and Day Observation Wings, enabling streamlined planning and execution of activities.

In the month of July, there were two major events conducted, The Red Drop'25- UC Meet and the key hand overing of the second house under the NSS housing project , reflecting NSS TKMCE volunteers' commitment to community service and social welfare.

Various competitions, including "Beyond the Wings" and "Cad Onam", were conducted as part of the

observance of Hiroshima Day and Onam.

Community activities such as the Ashtamudi cleaning drive, walkathon, scrap collection drive, and AIDS Day campaign were conducted to enhance awareness and uplift morale within the community. These initiatives also encouraged active public participation and strengthened the bond between volunteers and local residents.

The annual seven-day special camp, DHWANI, was conducted at MGD HSS, Kundara, from December 24 to 30 with the theme "Youth for MyBharat." The camp focused on community service and awareness programmes, providing volunteers with opportunities to actively engage with society and foster a strong sense of social and civic responsibility.

Jeeverkha 6.0 was organized by the Blood Cell and included the Rudhirasena orientation programme, Dhaara blood donation camp, and a flash mob aimed at promoting community awareness on the importance of voluntary blood donation.

Bhakshayati was a significant social welfare initiative undertaken by the unit with the objective of supporting underprivileged sections of society. The programme involved the monthly collection of food packets from students and staff, which were systematically distributed to the needy, fostering a culture of empathy, sharing, and social responsibility among volunteers and contributors.

NSS TKMCE stands as a vibrant platform for nurturing socially responsible and service-minded individuals by promoting leadership, teamwork, and a strong sense of civic duty. Guided by the motto "Not Me, But You," the unit continues to inspire volunteers to actively contribute to community development, thereby creating a meaningful and lasting impact on society.

# THE INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC)

## Innovation and Entrepreneurship Development Cell (IEDC) of TKMCE

As part of the IEDC–SEEDS '97 initiative, two startup companies, ZYK49 and Elextron, were incubated in the IEDC–SEEDS '97 Room, supporting student-led innovation and entrepreneurial activities.

There are 13 new startups registered in IEDC–TKMCE during the year 2025.

IEDC–TKMCE has established a collaboration with the Wadhwani Foundation for entrepreneurship development activities, further strengthening institutional support for student innovators

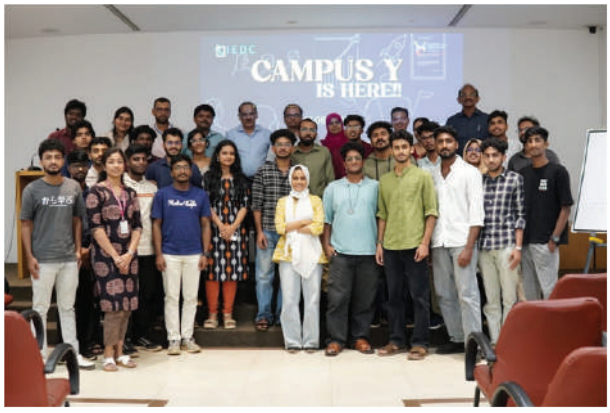
**The major events conducted by IEDC–TKMCE during the year 2025 include:**

**1. Innovex '25- National Level Entrepreneurial and Innovation Fest**

Innovex'25, the flagship event of IEDC–TKMCE,was conducted as

a one-day national-level entrepreneurial and innovation fest in collaboration with the IEDC units of TKM College of Applied Sciences (TKMCAS) and TKM Institute of Technology (TKMIT). The event featured various workshops, expert talks, interactive sessions, competitions, and a jamming session, promoting innovation and entrepreneurial thinking among students.

### 2. KampusY Incubation Collaboration Program



KampusY, Kerala's own startup incubator, visited the TKMCE campus in collaboration with IEDC–TKMCE to provide students with exposure to structured incubation support, mentorship, and start-up ecosystem practices. Currently, 10 startups are incubated under KampusY, enabling students to gain insights into early-stage venture development.

### 3. Obscura- 24-Hour National Level Hackathon

Obscura is a 24-hour national-level hackathon conducted with the theme "Sustainable Transportation."The event encouraged student innovators to ideate and develop sustainable and future-oriented solutions addressing challenges in the transportation and mobility sector.

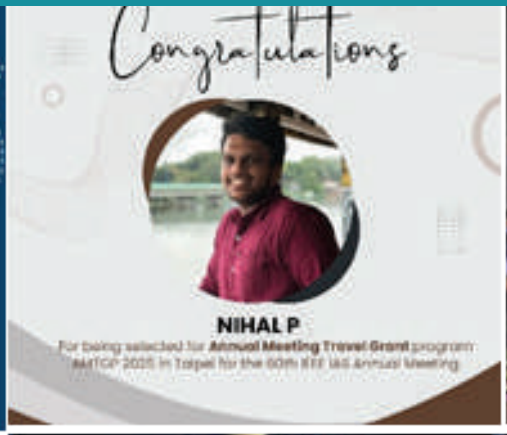
### 4. "Meet the Entrepreneur"- Interactive Program Series.

"Meet the Entrepreneur" is a newly introduced initiative aimed at strengthening interaction between students and entrepreneurs.The program includes interactive campus sessions followed by podcast recordings, which are published through the official IEDC–TKMCE social media platforms, thereby extending the outreach of the initiative.

Dr. Nissan Kunju, is the current Dean (Industry Connect, Entrepreneurship & Business Development) and the Nodal Officer–I for IEDC–TKMCE. Dr. Kavitha Madhu and Dr. Mohammed Mansoor are the supporting Nodal Officers.

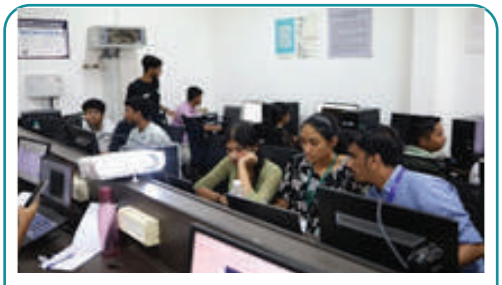
## 1985 BATCH 40th YEAR GATHERING AT TKMCE

# HISTORIC EVENTS AT IEEE SB TKMCE



Our student branch secured over $ 1,300 in grants for 2025,along with multiple student travel grants. It was also recognised among the top 5 student branches in the Kerala Section and received the Outstanding student branch award.

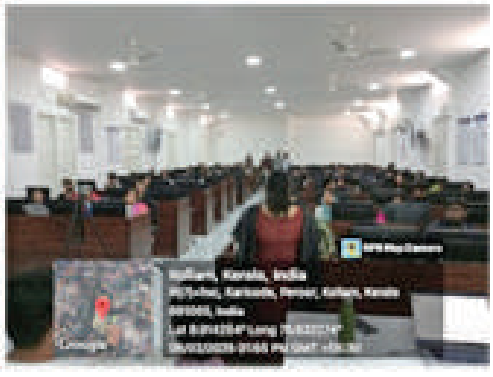
**INTRODUCTION TO AI/ML**
IEEE SB TKMCE, in collaboration with IEEE EDSOC SBC, organised a month - long introductory course on AI and ML, equipping students with fundamental knowledge & practical exposure to emerging AI technologies



**AURORA**
The flagship tech fest of IEEE SB TKMCE, brought together participants from across Kerala through workshops, competitions, and technical talks, creating an engaging platform for learning and innovation.

**ENCAMP 6.0:** Encamp, a flagship techno-managerial event, was conducted exclusively for first-year students. The program focused on equipping participants with essential skills such as teamwork, communication and problem - solving, preparing them for corporate and professional challenges.

**FROM CODE TO HARDWARE: STM32**
IEEE SPS SBC TKMCE in collab with IEEE SB TKMCE conducted a technical session on STM32 microcontrollers. The program offered participants exposure to embedded systems and real-time hardware applications.



**FROM PIXELS TO PAPERS: ADVANCED COMPUTER VISION WORKSHOP**
An advanced computer vision workshop was conducted by IEEE Computer Society TKMCE in collaboration with CSE TKMCE and the Computational Imaging Lab, IIT Madras. The session provided participants with deeper insights into AI and modern vision techniques.

# SAE TKMCE

SAE TKMCE is the collegiate chapter of the Society of Automotive Engineers at TKM College of Engineering, committed to fostering technical excellence and practical engineering competence among students. The chapter provides a structured platform for experiential learning through technical workshops, expert lectures, industry interactions and competitive events. By encouraging innovation, collaboration, and hands-on engagement, SAE TKMCE plays a vital role in bridging the gap between academic learning and real-world engineering practice.

The year 2025 stood as a landmark period for SAE TKMCE, marked by notable achievements across national-level competitions and prominent industry showcases. The chapter's diverse student teams demonstrated excellence in design, innovatIon, performance and sustainability.

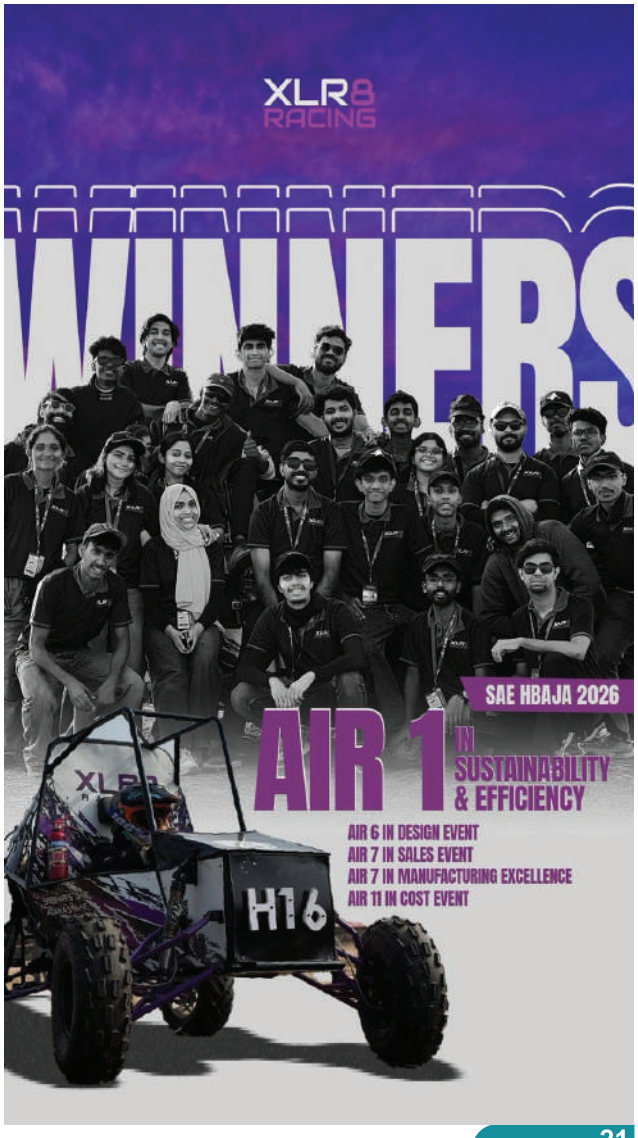
A petrol auto-rickshaw was successfully converted into an electric vehicle with the support of the SAE team and is now being efficiently used for eco-friendly garbage transportation within the college campus.

Vegha, the electric two-wheeler team, delivered an outstanding performance at the ETWDC 2025 (January edition), achieving AIR 2 in Design, AIR 3 in Innovation and an overall AIR 6, along with 2nd Rank in Kerala. The team's innovative electric scooter also gained wider recognition by being showcased at the Manorama World Auto Expo, highlighting SAE TKMCE's presence on prominent public platorms.

XLR8 Racing continued its legacy of excellence at BAJA SAE India 2025, achieving an overall AIR 12 and securing Kerala Rank 3, reinforcing the team's competitiveness in off-road vehicle engineering. XLR8 FST showcased strong engineering competence at Formula Bharath 2025, securing an AIR 14, reflecting the team's proficiency in formula-style vehicle design and execution.

SpoX recorded an Overall AIR 16 at the national level and secured Kerala Rank 6, further extending its impact by showcasing its cycle at the Trivandrum Student Expo, emphasizing sustainable and student-led engineering initiatives.

As 2026 unfolded, SAE TKMCE etched a moment of pride, celebrating innovation, perseverance and a remarkable triumph; XLR8 Racing proudly emerged as the overall winner at SAE HBAJA 2026, securing AIR 1 in Sustainability & Efficiency. The team also delivered outstanding performances across multiple domains, achieving AIR 6 in Design, AIR 7 in Sales, AIR 7 in Manufacturing Excellence, and AIR 11 in Cost. Together, these accomplishments underscore SAE TKMCE's unwavering commitment to technical excellence, innovation, and hands-on learning, establishing the chapter as a strong contributor to the engineering ecosystem at both the collegiate and national levels.



# DEPARTMENT OF CIVIL ENGINEERING

## Retired Staff

Sri. Hakkim and Sri. Siddik A.

## Retired Faculty

Prof. Sulphia Beevi U.

## MoUs Signed

• MoU with the University of Oulu, Finland (7 April 2025 to 7 April 2030). Coordinator: Dr. Adarsh S.

• MoU with Tokyo Metropolitan University, Japan ( 20 May 2025 to 20 May 2030) Coordinator: Dr. Priya K. L.

• MoU with Indian Institute of Technology (IIT) Madras for long-term academic and research collaboration in Civil Engineering. Coordinator: Dr. Kavitha Madhu.

## Industries and Organizations

• MoU with the Indian Institute of Infrastructure and Construction (IIIC) (2025–2028)

Coordinators: Dr. Adarsh S and Dr. Anu V. Thomas.

• MoU with the Block Panchayat, Mukhathala, (2025–2028). Coordinator: Dr. Althaf M.

• MoU with Dr. John's Biotech, Kollam.

Coordinator: Prof. Mamatha.

## Programmes Organised

### Details of programmes organised

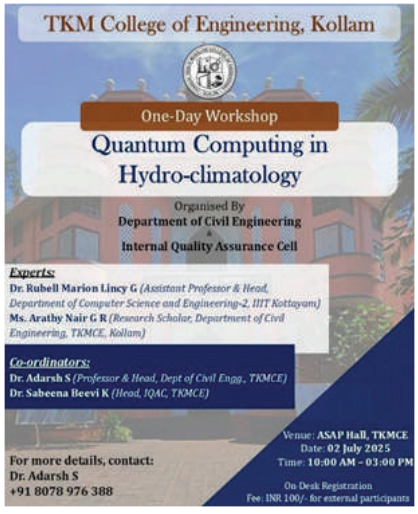
• A technical talk by Dr. Lelitha Devi Vanajakshi, Professor, Indian Institute of Technology (IIT) Madras, titled "Smart Mobility Solutions for Indian Traffic" was conducted on 01 January 2025 at TKMCE. The session provided valuable insights into intelligent transportation systems and sustainable traffic management solutions. The event was coordinated by Dr. Kavitha Madhu.

• The Groundwater Department, Government of Kerala, organized a one-day seminar titled "Groundwater Conservation and Remediation" at the Department of Civil Engineering on 13 November 2025. The event was coordinated by Prof. Sarath Mohan M. A.

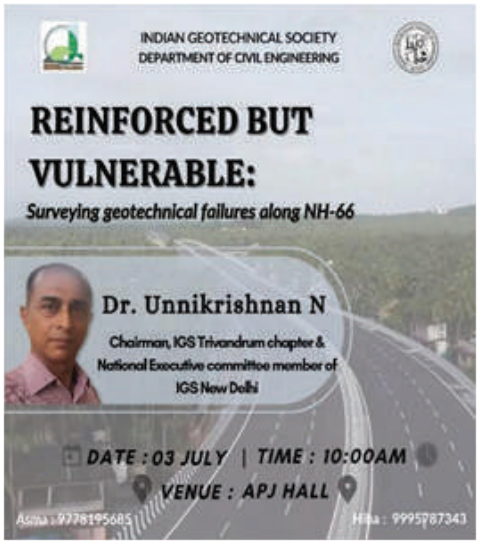
• A technical talk by Mr. Kannan Sreenivasan titled "3D Printing in Civil Engineering: Building Beyond Limits" was conducted on 25 March 2025. The session was coordinated by Prof. Abdu Salam P. and Dr. Amal Azad Sahib.

• A Faculty Development Programme (FDP) titled "GIS Applications in Disaster Management" was conducted at TKMCE from 07 July to 11 July 2025. The sessions were delivered by Dr. E. S. M. Suresh, Dr. G. Janardhanan, and Dr. K. S. A. Dinesh Kumar from NITTTR Chennai. The programme was organized by Dr. Adarsh S, Prof. Athul M. Madhu, and Dr. Gowri R.

• A one-day workshop titled "Quantum Computing in Hydro-climatology" was conducted on 02 July 2025 at TKMCE. The sessions were delivered by Dr. Rubell Marion Lincy G., Indian Institute of Information Technology (IIIT) Kottayam, and Ms. Arathy Nair G. R., Research Scholar, TKMCE. The event was coordinated by Dr. Adarsh S and Dr. Sabeena Beevi K.



The IGS Student Chapter of the Department of Civil Engineering organized a technical talk titled "Reinforced but Vulnerable: Surveying Geotechnical Failures along NH-66" on 03 July 2025 at TKMCE. The session was delivered by Dr. Unnikrishnan N., Chairman, IGS Trivandrum Chapter.




## Departmental Achievements

a. The Civil Engineering Department has been accredited by the National Board of Accreditation (NBA) for the period from 01 July 2025 to 31 December 2028.

b. The proceedings of the 7th International Conference on Modelling and Simulation in Civil Engineering (ICMSC) 2024 have been successfully published by Springer Nature in two volumes. The 7th ICMSC was held in December 2024 and was coordinated by Dr. Amal Azad Saib, Dr. Indu M. S., and Dr. Romana Mariyam Rasheed. The release of the Springer proceedings is an achievement and a testament to the collaborative effort, interdisciplinary engagement, and a shared commitment toward sustainable development. The Civil Engineering Department is grateful to all the editors, Prof. Swagata Banerjee Basu, Dr. Albert Thomas, Prof. Ali Danandeh Mehr, Dr. Priya Ram, Dr. Munavar Fairooz Cheranchery, contributors, reviewers, speakers, panelists, organizers, and participants who made ICMSC 2024 meaningful and impactful.

## Faculty Publications and Patents


- Sham, F. A. F., El-Shafie, A., Jaafar, W. Z. B. W., Adarsh, S., Sherif, M., & Ahmed, A. N. (2025). Improving rainfall forecasting using deep learning data fusing model approach for observed and climate change data. Scientific reports, 15(1), 27872.
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- GR, A. N., & Adarsh, S. (2025). Innovative knowledge-based system for streamflow hindcasting: A comparative assessment of Gaussian Process-Integrated Neural Network with LSTM and GRU models. Environmental Modelling & Software, 188, 106433.
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- Adarsh S., Ahmed, A. N., El-Shafie, A., Sherif, M., Antony, A. M., Anilkumar, K.,.. & Purath, J. T. (2025). Deciphering the teleconnections of extreme temperature indices with local scale meteorology using wavelet coherence. Physics and Chemistry of the Earth, Parts A/B/C, 140, 104009.
- Shamseena Vahab, Adarsh S (2025) Multifractal Applications in Hydro-Climatology: A Comprehensive Review of Modern Methods Fractal and Fractional. 9(1),27. https://doi.org/10.3390/fractalfract9010027
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## Faculty and Staff Achievements

- Dr. Anu V. Thomas successfully completed the 12-module on Lean Manufacturing Practices course by the Mizuho India Japan Study Centre, IIM Bangalore, and received the Best Performance Award.
- Dr. Adarsh S. has been invited as a Visiting Professor at the Technical University of Munich, Germany and the University of Pavia, Italy.

Dr. Adarsh S. has chaired a Technical Session at International conference ICWEE-2025 held during 19-21 November 2025 at Western Sydney University Australia.

Dr. Adarsh S. has been appointed to the editorial boards of Nonlinear Processes in Geophysics and Nature Scientific Reports.

- Dr. Priya K. L. has been appointed to the editorial boards of International Journal of River Basin management and Results in Engineering.
- Dr. Priya K. L. and Dr. Indu M. S. have secured a KSCSTE-funded project under the ETP Scheme for developing a sustainable hybrid coagulant for micro/nanoplastic removal, with a grant of ₹8.48 lakhs.
- Dr. Adarsh S. and Dr. Priya K. L. have been conferred the title of Research Fellow by INTI International University, Malaysia, in recognition of their research contributions.
- Dr. Adarsh S. served as the Resource Person for the program titled "Artificial Intelligence Applications in Civil Engineering: Enhancing Efficiency, Sustainability and Safety," conducted at SBCE Pattoor from 6th January to 11th January 2025.
- Dr. Ramaswamy K. P. delivered an invited talk on "Quality Assurance & Ranking in Higher Educational Institutions and the Way Forward" for the faculty of TKM Institute of Technology

(TKMIT), Karuvelil, on January 10, 2025.

- Dr. Priya K. L. delivered the keynote address at the International Conference on Advanced Materials for Sustainable Future, held on March 28, 2025, at Chitkara University, Punjab.
- Dr. Priya K. L. served as the Resource Person for the Faculty Development Programme on "Pathway to Research: From Ideas to Impact", jointly organized by TKMCE and C-DIT, Thiruvananthapuram, held from May 5 to May 10, 2025.
- Dr. Althaf M. served as the Resource Person for the program titled "Artificial Intelligence Applications in Civil Engineering: Enhancing Efficiency, Sustainability and Safety," conducted at SBCE Pattoor from 6th January to 11th January 2025.
- Dr. Althaf M. served as a Reviewer for the National Conference on Emerging Trends and Innovation (NCETI 2025) held at Bishop Jerome Institute (BJI), Kollam, during 19th and 20th July 2025.
- Dr. Althaf M. chaired a paper presentation session at the Research Conclave on "Innovate, Include and Inspire (ReCon III)", held from 25th to 27th September 2025. The conclave was organized by the Research Forum, NIT Calicut, in collaboration with UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainable Development (MGIEP).
- Dr. Priya K. L. delivered the keynote address at the International Conference on Civil Engineering and Architecture for Sustainable Infrastructure Development and Environment (CEASIDE 2025) on 10th October 2025 at Government Engineering College, Thrissur (GEC Thrissur).
- Remi N Meera secured first place in the MS 35 event at the Kollam District Badminton Championships 2025, organized by the Kollam District Badminton (Shuttle) Association (KDBSA). The tournament was held at Izyan Sports City, Kollam, from12 June to 14 June, 2025.
- Dr. Gowri R. has been granted a research seed money of ₹2,00,000 by APJ Abdul Kalam Technological University for her project titled "Spatiotemporal Evolution of Hydrological Processes in Kerala Under a Changing Climate."
- Dr. Romana Mariyam Rasheed completed the 24-week AICTE QIP PG Program on "AI Powered Computer Vision for Smart Agriculture and Healthcare Applications" at NIT Warangal.
- Dr. Ramaswamy K. P. and Dr. Indu M. S. successfully completed SWAYAM online course certification, the 3 credit course on Swachhata Campus - Clean, Green and Sustainable Technology, held during January – May 2025.
- Dr. Ramaswamy K. P. attended International Symposium on "Innovations in 3 D Printing Concrete Bridging Academia and Industry" organised by Department of Science & Technology, Government of India and The India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability (IC-IMPACTS) (Organised by IIT Madras, IIT Guwahati, and Carleton University, Canada) on March 13, 2025.
- Dr. Ramaswamy K. P. organised and served as a resource person for the one day awareness workshop on India Rankings (Engineering) on 19th November 2025 at TKM College of Engineering, Kollam.
- Dr. Althaf M., Department of Civil Engineering, is a co-inventor of an Indian patent titled "A Seismic Base Isolator with Multi-Directional Energy Dissipation and Self-Centering Capability," published by the Indian Patent Office.

## Student achievements

1. Reyhaan (2023-2027 batch) and his team secured the Runners-Up Trophy in the KTU B-ZONE Men's Volleyball Tournament held during 2025–26.

2. Zoya Fathima (2023-2027 batch) and her team emerged as Champions in the KTU B-ZONE Women's Volleyball Tournament 2025–26.

3. Aishwarya B (2022-2026 batch) and her team emerged as Champions in Discus Throw at the Kollam District Athletics Meet.

4. Adhil S., (2022-2026 batch), a National level player in basketball is selected to APJ Abdul Kalam Technological University Basketball men team for the inter university basketball tournament.

5. Rhyhana Thasneem and Pavithra A. R. (2023-2027 batch) secured first in Trouvaille, technical paper presentation event. Topic: "Innovation in Civil Engineering", event conducted by CET, as part of Pantheon 11.0.

6. Ebin Antony, Sanjana Naushad and Parvathy Suresh (2023-2027 batch) bagged the first prize for Autoclash competition at Pantheon 11.0 conducted at College of Engineering Trivandrum.

7. Fathima, S. S., Akhila, S. A., Panchami, C., Roshitha, S., of 2021-25 batch, along with Dr. Romana Mariyam Rasheed published a conference paper titled, "Influence of Cd2+ and Cr6+ on compressibility of crosslinked biopolymer treated soil" for International Conference "Geotech Asia 2025". The paper has been published in the proceedings, In GeoVadis: The Future of Geotechnical Engineering (Volume 1). 243-248 (September 16, 2025).

8. A team comprising Nivedya, Asif Khan and Rehan (2023-2027 batch) were declared as the winners of All India Building Bharath Hackathon held at IIT Gandhinagar. They also received a cash prize of Rs 5000.

9. Adil Ahammed K. P. (2023-2027 batch) has been selected to the APJ-AKTU University Men's football team.

10. Adhil S of 2023-2027 batch of Civil Engineering department has been selected as the captain of APJ Abdul kalam technological university basketball men team for the Inter university basketball tournament at SRM University Chennai.

11. Chanchalitha P. P, and Akshay Krishna R. S. (2023-2027 batch) participated in the Malayala Manorama Q Factor Quiz and emerged as Zone 1 winners. They also participated in the State Level Competition at Kochi.

12. Ebin Antony (2023-2027 batch) secured first prize at CADD war competition in RITU 25 held at RIT, Kottayam.

13. Ebin Antony (2023-2027 batch) secured first prize for REVIT competition at Albertian Institute of Science and Technology, Cochin.

14. Adhil S. (2023-2027 batch) and his team from TKMCE secured first prize in the Inter-Collegiate Men handball Tournament held at University Stadium, Trivandrum.

15. Gokul Ramesh and Ganesh Arun of 2022-2026 batch were winners of zone I Inter college civil engineering quiz event.

16. Selestin S. of 2022-2026 batch is placed in the reputed civil engineering core company Sobha Constructions.

17. Akshay S. Aby of 2023-2027 batch and his team from TKMCE secured first prize in APJKTU B-Zone Men's Basketball tournament.

18. Adil Ahammed K. P. (2023-2027 batch and his team from TKMCE secured first prize in APJKTU B-Zone Men's Football tournament.

19. Civil students from 2023-2027 batch (Adithyan Prasad, Kavya A., and Noelin Mary Baisel), who were part of the film and drama club of TKMCE won the consolation award for drama competition held at RAGAM 2025 at NIT Calicut.

20. Krishna Biju of 2023-2027 batch and Anagha S of 2021-2025 batch secured first and third prizes for the photography competition (FRAMORA) conducted as a part of IGS Student Chapter.

21. Best Project Award from the Civil Engineering department was given to the team comprising Aayisha Salim, Akhila L, Meenakshi S Pillai, and Shamseena Vahab of 2021 -2025 batch. The team was guided by Dr. Adarsh S. The team was awarded the prize after evaluation of all projects from various departments.

22. Navaneeth K. of the 2021-2025 batch was a national level participant in football.

23. Anchu G. of the 2024-2028 batch was a national level participant in chess.

## Alumni Achievements

1. Dr. Swathy Manohar, a proud alumna of the 2009–2013 UG Civil Engineering batch of TKMCE, has been selected for the prestigious Early Research Achiever Award at IIT Bombay. She is currently serving as an Assistant Professor at IIT Bombay.

2. Srikala S. of 1991 batch was appointed as the Chairperson of Kerala State Pollution Control Board on January 2.

3. Prof. P. A. Muhammed Basheer's (of 1981 batch) Investiture for the Commander of the Order of the British Empire (CBE) was held at Windsor Castle on the 6th of February. Her Royal Highness, Princess Anne handed over the CBE medal to Basheer.

4. Dr. Sujatha Manoj, from TKM Civil Engineering 1991 batch, was nominated by Engineers Australia, the peak body for the engineering profession in Australia, as their representative to sit on the "Standards Australia Committee" that creates Australian Engineering Standards on May 29.

5. Alumnus J. J. Jalal (1989 Civil) has been recognized by UNICEF & Stanford University for his outstanding contributions to humanity.

6. Dr. L. Gouri Mohan (2001 Civil Engg batch) took charge as the Principal of TKM Institute of Technology Karuvelil on 6 September 2025. She completed her M. Tech in Structural Engg and Construction Management from TKM in 2009 and took Ph.D. from University of Kerala in 2023.

7. Dr. Nandita J. S. of 2010-14 batch has been appointed as Assistant Professor at Kotak School of Sustainability at IIT Kanpur.

## Student Achievements

- SUMAYAH SANTHOSHKHAN received Alumni Proficiency award for the Best student considering curricular & extracurricular activities (2021- 20 25 batch).
- AKSHARA SURESH received Merit Certificate for securing the maximum marks in B. Tech (2021-2025 batch).
- NEETHU S. received Merit Certificate for securing the maximum marks in M. Tech: Structural Engineering and Construction Management (2023-2025 batch).
- SHERNAZ V. SEYAD received a Merit Certificate for securing the maximum marks in M. Tech: Transportation Engineering (2023-2025 batch).
- SONA S. and ADHILA A. of 2024-2028 batch received Prizes introduced by Alumni & PTA for Highest mark, first appearance during semester 1 and 2.
- HANNA P. and ANJA NA B. of 2023-2027 batch received Prizes introduced by Alumni & PTA for highest mark, first appearance during semester 3 and 4
- ATHIRA MUKESH and DEVAYANI J.

of 2022-2026 batch received Prizes introduced by Alumni & PTA for Highest mark, first appearance during semester 5 and 6

- AKSHARA SURESH received Dr. Ziaudeen Memorial Gold Medal for securing maximum marks among all the outgoing students (2021-2025 batch)
- AKSHARA SURESH received Sri. P. P. Nair Gold Medal for being the Topper of Civil Engineering Branch. (2021-2025 batch)
- AKSHARA SURESH received the Swaroop Kumar Memorial Gold Medal for securing the Topper position in the Civil Engineering Branch. (2021-2025 batch)
- AKSHARA SURESH received Naj mal Hussain memorial Gold Medal for securing the Highest mark in the subject of Construction Technology and Management (2021- 2025 batch).
- AKSHARA SURESH received the Sri. Russel Raveendran Memorial Cash Prize for securing the Topper position in Civil Engineering (2021-2025 batch).
- AKSHARA SURESH received Prof. U.C. Ahammad Kutty Cash Prize for securing the Topper position in Civil Engineering ( 2021-2025 batch).
- AKSHARA SURESH received Prof M. Sree Kumaran Memorial Award for securing maximum marks in Design of Structures (2 papers - RCC design & Steel Design) ( 2021-2025 batch).
- AKSHARA SURESH received Dr. Taj Memorial Award (Cash and Trophy) for securing maximum marks from all the outgoing students. (2021-2025 batch)
- ATHIRA MUKESH received Prof. Sam Robert Nayagom Memorial Gold Medal for securing the Highest mark in Structural Engineering, all the papers put together ( 2022 -2026 batch).
- APARNA DEVI V. M. received Prof. E.V. Namboodiri Cash Prize for securing the highest total marks in the subjects:

i) Programming & Numerical methods (6th semester) and

ii) Computer Methods for Structural Analysis (7th semester) put together in first chance (2021-2025 batch)

- APARNA DEVI V. M. received Ca pt. Vijaya Kumar Memorial cash prize for securing Second best student of Civil Engg (second topper from 2021-2025 batch)
- ANNAT MARIA ANTONY receiv ed Sri Rajeev Memorial Cash Prize for securing highest mark in the university Exam up to IV th semester in Civil Engineering Department (2022-2026 Batch)
- ADHILA A. and VARSHA SURE SH received Sri. Thankappan Nair memorial Endowment for Civil Engineering Department students based on merit cum means (2024-2028 batch)
- NISWANIDHA and AKHILA A. re ceived Sri. Thankappan Nair mem orial Endowment for Civil Engineering students based on merit cum means.(2023-2027 batch).
- SANA BASHEER and FARSANA N. received Sri. Thankappan Nair memorial Endowment for Civil Engineering students based on merit cum means (2022-2026 batch).
- SANA BASHEER received Sri. Sudheer R Memorial Cash Prize for securing Merit cum means from Civil Engineering Department (20 22-2026 batch).
- NEETHU S. received Govind Ramadas Memorial Award for securing the topper in M.Tech – Structural Engineering and Construction Management (2023-2025 batch).
- AKSHARA SURESH received a Merit Certificate for securing the highest mark in all mathematics papers put together (2021-2025 batch).
- ATHIRA MUKESH received Prof. N. I. Stephen Gold Medal for securing highest mark in all mathematics papers put together (2022 -2026 batch)
- SONA S. received Prof. P. A. Abraham Cash prize for securing maximum marks in Engineering Graphics in the first appearance including sessional marks (2024-2028 batch).

## ELECTRONICS AND COMMUNICATION

### Retired Staff

Biju K

### Programmes Organised

1. Conducted 30 hours Add-on course on Digital IC Design for UG final and pre-final years in 2025

2. 40 Hour Training on Robotics and Embedded Systems for Students of Peace Public School from October 2024-January 2025.

3. 40 Hour Training on Robotics and Embedded Systems for Students of TKM Higher Secondary School from February – June 2025.

4. 1- day workshop on FPGA based SoC Prototyping as a part of Chip to Startup program for UG/PG/PhD students on 19/7/2025.

5. 2- day workshop on ASIC Flow using Cadence EDA Tools as a part of Chip to Startup program for faculty/PG/PhD on 27, 28 November 2025.

### Faculty Publications

- Kartik S Prakash , Nissan Kunju, An optimized electrode configura-

tion for wrist wearable EMG- based hand gesture recognition using machine learning, Expert Systems with Applications, 274 (2025).

- Aswathy G P, Geolocation database assisted sub-Nyquist cooperative spectrum sensing for cognitive radio networks, Digital Signal Processing, 161(2025.)
- Mili Rosline Mathews and Dr. Anzar S. M., An Attention Driven Retinal Classification Model for the Joint Grading of Diabetic Retinopathy and Macular Edema, SN Computer Science, 2025.
- Mili Rosline Mathews and Dr. Anzar S. M., Advancing Computer-Assisted Diabetic Retinopathy Grading: A Super Learner Ensemble Technique for Fundus Imagery, International Journal of Imaging Systems and Technology, 35,4 (e70152), 2025.
- Zareena Jamaluddin, V Amsa veni, "Enhancing Osteoarthritis Predi ction with A Hybrid Deep Learning Model on Knee X-Rays", International Journal of Intelligent Engineering and Systems, Vol.18, No.10, 2025
- Lubaib P, Ajesh J S, et al., Adva nced smart bioelectronics for wound healing: biosensing, drug delivery, and artificial intelligence, International Journal of Pharmaceutics, Volume 684, 10 November 2025, 126098.
- Reshna S, ISL CNN: A CNN based Automated System for recognition of Indian Sign Language for Hearing Impaired, International Journal of Science and Research, Volume 14 Issue 1, January 2025.
- Reshna S, Haris P A, Imthias Aha mad T P, Jayaraju M. "Hand Gesture Recognition for Indian Sign Language: A CNN-GRU-MLP Appro ach", International Journal of Intelligent Engineering and Systems, Vol.18, No.4, 2025, pp. 98-112

## Patents

• Prof. Anu Assis was awarded a patent in September 2025 for her innovative design titled "Container for Geophyte Plants".

• Prof. Lubaib P, Shabas A, Noel Vargheese George, Amritha Suresh& Mohammed Zaman published a patent in October 2025 for their innovative design titled "An Automatic Solar Tracking Drying Platform System for Enhancing the Drying of Agricultural Products".

• Dr. Nissan Kunju, Prof. Kartik S. Prakash, Prof. Ganeshnath R., Ms. Thanooja L. and Ms. Varsha A. published a patent in November 2025 for their innovative product titled " A Wearable EMG and IMU-Based System for Real-Time Sign Language Recognition and Translation"

## Faculty and Staff Achievements

• Dr. Sajeena A successfully defended her PhD thesis titled "Segmentation with Feature Point Matching for Regional Sign Language Recognition System" under the guidance of Dr. T. A. Shahul Hameed and Dr. Sheeba O from the University of Kerala.

• Dr. Vishnu D successfully defended his PhD thesis titled "Design and Performance analysis of compound reconfigurable antenna using metasurface" under the guidance of Dr. T. A. Shahul Hameed and Dr. Sheeba O from the University of Kerala.

• Dr. Arun A. V., Assistant Professor, Department of Electronics and Communication Engineering, TKM College of Engineering, has been selected as a recipient of the 2025 IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award by the IEEE Member and Geographic Activities (MGA) Student Activities Committee.

• Dr. Nishanth N received reviewer recognition from the prestigious IEEE Transactions on Industrial Informatics in January 2025, acknowledging his valuable contributions to maintaining the high quality and integrity of scholarly publications in the field.

• Dr. Nishanth N delivered an expert session on "Random Variables and Random Processes for Engineering" as part of the Faculty Development Program titled "Integrating Engineering Science into Engineering Applications", organized by the College of Engineering, Kottarakkara. The session emphasized the practical significance of random variables and random processes in modeling and analyzing real-world engineering systems.

• Prof. Anu Assis served as resource person for One day workshop on ' Practising OBE in Teaching – Learning Process', conducted at TKM College of Engineering under Margadarshan Scheme of AICTE, on 5th July 2025.

• Prof. AnuAssis served as resource person for oneday workshop on ' OBE Practises', conducted at VKCET, Paripally, under Margadarshan Scheme of AICTE, on 31st July 2025.

• Prof. Anu Assis delivered Expert talk on 'High Electron Mobility Transistor' at Sree Buddha college of Engineering, Pattoor, in 2 day National Symposium on Innovations and Sustainability: Future of Semiconductors and B5G in India' on 11th December 2025.

• Prof. Ganeshnath R was honoured as an NPTEL Superstar in June 2025 by NPTEL, recognizing his outstanding performance, dedication, and exceptional academic

achievements in the online certification courses offered by the platform

• Dr. Nissan Kunju earned the title of Certified Entrepreneurship Educator from the Wadhwani Foundation in September 2025, reflecting his successful completion of the program and his commitment to fostering innovation and entrepreneurial skills among students.

• Dr. Anzar S M, Research Activities Chair, IEEE Education Society Kerala Chapter, delivered an expert session on "The IPR Spectrum: An Introduction to Intellectual Property Rights" during e-KITES 3.0, organized by the IEEE Education Society Kerala Chapter in association with Ahalia School of Engineering and Technology, Palakkad, on 4–5 October 2025

• Dr. Anzar S M served as a Resource Person for the Student Induction Program at MES Institute of Management and Technology, Chathannore, and delivered a session on "Professional Bodies and Activities" in September 2025.

• Dr. Anzar S. M., Assistant Professor at TKM College of Engineering, Kollam, delivered an insightful webinar on "Demystifying Fourier Analysis" on 14th November 2025 via Google Meet. The session, organized by the School of Computational Intelligence, Joy University, provided participants with a clear understanding of the fundamentals and applications of Fourier Analysis. The event was coordinated by Prof. Dr. Nishi S. Das, Assistant Professor, SOCI.

• Prof. Reshna S served as a distinguished speaker at the 3rd edition of "Recent Advances in Signal Processing (RASP 2025)," held online via Google Meet from 24–28 November 2025, under the IEEE Signal Processing Society, BVRIT Hyderabad Chapter.

• Dr. Arun A V served as the resource person for the Faculty Development Programme on "VLSI Design and Verification: A Hands-on Approach," held from 10–14 November 2025.

• Dr. Arun A V served as the resource person for the Two-Day Seminar on "AI and Machine Learning in Semiconductor Chip Design," held in Malayalam under the AICTE–Vibrant initiative at Albertian Institute of Science and Technology, Ernakulam, on 19–20 November 2025. His talk was on RISC-V for the AI Era.

• Dr. Arun A V served as the resource person for the Three-Day AICTE-VAANI Sponsored Faculty Development Program on "AI-Enabled Semiconductor Design for Energy-Efficient Electronics," organized by the Department of Electronics and Communication Engineering, Sahrdaya College of Engineering and Technology (Autonomous). The FDP was held offline from 15–17 July 2025

• Prof. Reshna S served as a jury member for the district-level evaluation of the Green Energy Forum – Innovation Idea Contest 2025, sponsored by IREL (India) Ltd., Chavara, Kerala. The event was held on 17th September 2025 at TKMCE, Kollam

## Students Achivements

• Aiswarya S (2024-28 batch) achieved First Position in the 60 Kg category at the XLVI National Arm Wrestling Championship 2025, held from 29–31 August 2025, marking an outstanding accomplishment at the national level.

• Alpha Alex& Aiswarya S , students of the 2024–28 batch , secured the First Prize in the 4 × 100 m relay event at the district-level sports competition, demonstrating exceptional athletic performance and teamwork.

• Krishna S Krishnan (T6B) won the First Prize in the B-Zone Badminton Championship held on 8th and 9th October 2025, proudly representing TKMCE and showcasing remarkable sporting excellence.

• The project "Early Detection of Bovine Mastitis using Machine Learning" by Abdul Rahman J, Ahammed Raees Thottiyil, Derin John Antony, and Bharath Mohan (ECE 2025) won the national-level InApp–IEEE CS Student Project Award 2025, receiving a ₹50,000 prize during InApp's 25th Anniversary Celebration at Trivandrum. The work was guided through an interdisciplinary collaboration involving

Dr. Vinodkumar K. (KVASU), Prof. Shabeer S, Prof. Sajeena A, Prof. Anu Assis, and Dr. Vishnu Damodaran of the ECE Department, TKMCE. Initiated by the IEEE CASS SB, the project delivers meaningful societal impact by enabling early detection of bovine mastitis, benefiting farmers, animal welfare, and milk quality.

• On 15 July 2025, the team comprising Nihal P (T7), Aswin M, Haneen Haris Kormath, and Muhammed Jasil N K secured a Top 3 position in the IEEE-IAS-IPCSD Engineering Chapter Student Design Competition, winning a prize of 2000 USD.

• Aditya Chandra Mohan and Bhadra JR of T7 won Government Grant of Rs. 25,000/- as District Level winners of the Young Innovators Programme (YIP) 5.0. This flagship program is organized by the Kerala Development and Innovation Strategic Council (K-DISC) and the Government of Kerala, aiming to empower future innovators.

• Bhadra J. R. (2022-26 batch) secured an internship at NXP Semiconductors through the prestigious Women in Tech program. She was selected from a highly competitive pool of more than 8,500 applicants nationwide, marking an impressive achievement.

• Salabha Krishnan H (2024–28 batch) has authored several published books. Her first book, Blooming Flower, a collection of 30 poems, was released in February 2018. This was followed by her second book, The Shining Star, featuring 28 poems, published in February 2020. Her third collection, Swirling Breeze, comprising 25 poems, was released in June 2022. Her latest work, The Dazzling Sun, a collection of 24 poems, was published in 2025.

• Anna Mary James, Basil Mubarak, Joanna Mary Nebu & Sreya Sunil bagged the Best Poster Award in IEEE CASS Industry Forum(CASIF) for their work "FPGA Implementation for Abnormal Heartbeat Detection using DSNN" guided by Prof. Ganeshnath.R

## Alumni Achievements
## Merit Awards

• DERIN JOHN ANTONY received Alumni Proficiency award for Best student considering curricular & extracurricular activities (passed out batch) (One student from 2021-2025 batch)

• VISHNU GOPAN received Merit Certificate for securing maximum marks in B.Tech

• VISHNU GOPAN received Dr. Ziaudeen Memorial Gold Medal for securing maximum mark from all the outgoing students

• VISHNU GOPAN received Thaj Memorial Award for Excellence for securing maximum marks among all the outgoing students

• VISHNU GOPAN received Prof. POJ Lebba Gold Medal for Topper of Electronics and Communication engineering.

• AISWARYA A S received Manu Xavier Memorial Prize for becoming topper up to VI Semester University Examination.

• Muhammed Razil k, Nandana Anil, Vaishnav O, Nayana Liz Liji received Manu Xavier Memorial Best Project award for Best Mini Project in VI Semester.

• Habeeb Muhammed Niyas, Thariq T, Hanan, Harisiva G S received Manu Xavier Memorial Best Project award for Best Mini Project in VI Semester.

• Malavika M received Neethi Memorial cash Award Topper in I and II Semester B Tech examination first appearance in electronics & Communication engineering from 2024-2028 batch.

• VISHNU GOPAN received Thas lim Sheik memorial Gold Medal for becoming topper of the branch.

• Malavika M & Lena Susan John received Prizes introduced by Alumni & PTA for Highest mark for the first appearance in S1 & S2.

• Meera Haridas, Areeb T K received Prizes introduced by Alumni & PTA for Highest mark for the first appearance in S3 & S4.

•Aiswarya A S & Karthika S received Prizes introduced by Alumni & PTA for Highest mark for the first appearance in S5 & S6.

• Sachin T received merit award for topper in PG

## Department News

1. The department has taken a major step forward in advanced chip design education by setting up state -of- the-art electronic design automation (EDA) facilities under the Chips

to Startup (C2S) initiative of MeitY, Government of India. With access to industry-leading tools from Synopsys, Cadence, Ansys, Xilinx, Silvaco, and Keysight, our students and researchers can now experience the complete chip-making journey—from writing basic design code to creating final silicon-ready layouts, including analog and mixed-signal circuits. This facility bridges classroom learning with real-world semiconductor industry practices. The project is led by Dr. Arun A V as the Principal Investigator, with Prof. Anu Assis serving as the Co-Principal Investigator.

Chips to Startup Programme

ChipIN

इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY

2. The Department of Electronics and Communication Engineering, TKM College of Engineering, has successfully completed its first consultancy project titled "Inspection of the AI-Integrated CCTV Surveillance Management System" at IREL (India) Ltd., Chavara. Consultancy assignment was accomplished through the dedicated efforts of Mr. Biju P., Mr. Muhammed Rafi, Mr. Raseem Hussain, and Mr. Haris, under the supervision of Dr. Nishanth N. The final inspection reportwas formally handed over to Mr. Ajith C. S., Chief Manager (Security), IREL (India) Ltd., by theVice Principal, Dr. Ansamma John, marking a significant milestone for the department in industry academia collaboration.

3. The Department of ECE,TKMCE-had an engaging and productive discussion with officials from SunTec Business Solutions, including Mr. G. Vijayaraghavan (Founder CEO, Technopark), Mr Prakash Nair (Global HR Head), Mr.Mudit Kumar (Vice President – Product Development), and members of the HR and Talent Development team. The team also visited IBS Software and engaged in a fruitful discussion with Mr. Ashok Rajan, CFO, and Mr. Mathews Thankachan.The ECE team Dr. Nishanth N(Professor and Head, ECE), Mr.Khais Musaliar (Member, CMD), Dr.Nissan Kunju(Dean, Industry Connect), Dr.Arun A V(Assistant Professor), Prof. Gane shnath R. (Assistant Professor), Mr. Muhammed Sulfeekar A (Trade Instr uctor) and Mr.Dixon Mathews(Final Year student)presented the key stren gths of the department along with the major features of the autonomous curriculum.The interaction marked a meaningful step toward strengthening academy-industry coll aboration and set the stage for pro mising partnership initiatives betw een TKMCE and Industry.

4. Department of ECE, TKMCE demonstrated their Robot and Drone innovations at TKMCPS, celebrating the spirit of technology and patriotism during the Kargil Vijay Diwas. Lt. Col. Sunil Kumar V C, Commanding Officer, 7K BN, NCC and Lt. Col. Vineeth A, Associate NCC officer, were the chief guests of the function. DARCY team members Dr. Nishanth N,Ajesh J S, Mr.Asif Saif, Mr.Parthiv Roshan, Mr.V Kausikand Mr.Thariq Twere also present for the function.

5. The IEEE EMBS chapter enabled a collaborative internship program me with Believers Church Medical College Hospital, providing hands-on biomedical exposure to 16 ECE students.The EMBS chapter, coordinated by Dr. Nissan Kunju and Dr. Arun AV of the Department of ECE, supports sustained student engagement and interdisciplinary collaboration. It was inaugurated on 18th July 2025 in the presence of Dr. Rojin George Abraham, HoD of Neurosurgery, BCMCH, Thiruvalla.

6. Hon'ble Chairman Dr. Shahal Hassan Musaliar and Hon'ble Treasurer Er. Jalaluddin Musaliar unveiledDepartment of ECE's Humanoid Robot named DARCY in presence of Trust Members - Dr. Haroon M, Janab Jamaluddin Musaliar, Janab Sadik M Thaha, Executive DirectorDr. Ayoob S and The Principal Dr. Sadiq A. Special Appreciation was given to the hard-work of the ECE student team-Asif Saif,Ajesh J S,Aswin A,Harsha Vardhini R,Partiv Roshan,Thariq Tand Kaushik.

7. The Drone Application Robotic Centre (DARC) of ECE was officially inaugurated on July 3rd, 2025, at TKM College of Engineering by Janab T. K. Shahal Hassan Musaliar, Chairman of the TKM Trust. The event marked a major milestone in the institution's journey towards innovation in drone technology and robotics. Present on the occasion were TK Jalaluddin Musaliar(Treasurer), Trust Members TK Jamaluddin Musaliar and Sadiq S Thaha, Executive Director Dr. S Ayoob, Dr. Sadiq A(Principal, TKMCE), and Dr. Nishanth N (Head of the Department, ECE), whose collective support added strength to the launch of this visionary centre.The inauguration was followed by an impressive drone show, powered by Fuselage Innovations, capturing the imagination of everyone present.

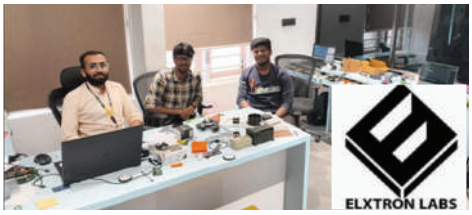
8. As part of the MoU between the Department of Electronics and Communication Engineering and TKMCPS, the "Lab to Learn" initiative of ECE@TKMCPS was implemented with the primary focus on providing hands on laboratory exposure to school students. Under this initiative, the department donated key electronic equipments, including a Digital Storage Oscilloscope, power supply, and function generator to TKMCPS, aiming to foster early interest and practical understanding in Electronics and Communication Engineering.

9. The Department signed an MoU with the Airports Authority of India (AAI) to promote industry academia collaboration and provide structured internship opportunities in aviation related technologies. Under this collaboration, 6 ECE students have successfully completed internships at AAI, gaining hands on experience in communication systems, navigation aids, and airport infrastructure.

10. The Department of Electronics and Communication Engineering showcased its latest student and faculty projects, including an advanced drone system, at exhibition inaugurated by the Honorable Finance Minister of Kerala, Shri K. N. Balagopal, and Former Minister, Shri M. A. Baby, at Ashramam, Kollam. The exhibition highlighted cutting edge innovations and practical applications developed by the department, drawing appreciation from visitors and dignitaries alike.

## STARTUPS

ElextronLabs, a promising startup founded by Asif Saif, Ajesh J. S., and Bharath Mohan from the 2021–25 batch, marks an exciting entrepreneurial venture emerging from TKMCE.




## GATE Qualifiers

# ELECTRICAL & ELECTRONICS ENGINEERING

## Retired Staff

Biju K

## MoUs Signed

An MoU has been signed between TKM College of Engineering and CDAC Thiruvananthapuram to strengthen academic and research collaboration. The partnership incl udes expert lectures, invited talks, training programs for staff and students including industrial visits and opportunities for joint R&D projects with shared laboratory facilities. This initiative aims to en hance industry–academia integration, foster innovation, and support skill development.

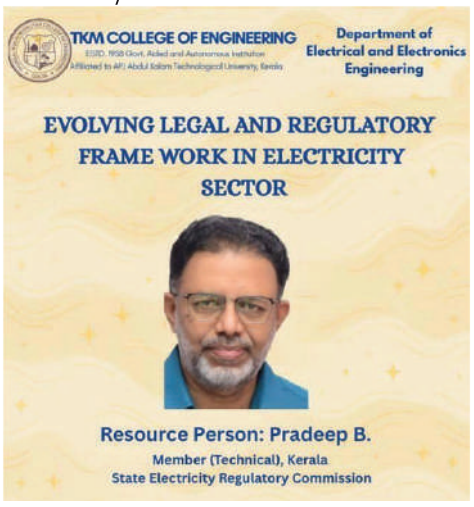
MoU signed with Kerala Automobiles Ltd. (KAL)

## Programmes Organised

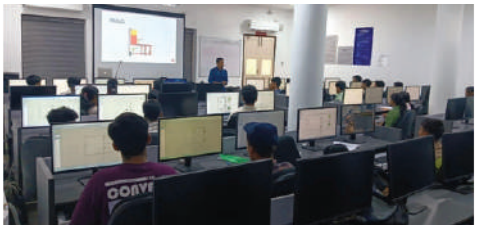
1. The first phase (100 kWp) of 400 kWp solar plant with an estimated cost of Rs. 2 Crores, was successfully sourced and installed by the TKM College Trust over the Mechanical and Architecture blocks of the college.

2. Placement training on Resume Building & LinkedIn Profile Creation

3. Expert session on "Evolving Legal and Regulatory Framework in the Electricity Sector"




4. Hands-on Electrical Engineering workshop for school students (Classes 8–12) as part of Electrical Innovation Outreach Program.



5. Workshop on "Introduction to AI & ML" was organised.

6. Project exhibition was conducted and exhibits including drones, EV technology models, and robotics-based applications, were shown to visiting school and college students.

7. Active participation in the Quantum Century Exhibition hosted by TKM College of Arts & Science, showcasing student innovations and departmental project exhibits.The Department of Electrical & Electronics Engineering at TKM College of Engineering recently organized a vibrant Project Exhibition, showcasing a range of student innovations — from drones and EV-technology models to robotics-based applications. Visiting school and college students were treated to working prototypes and hands-on demonstrations, offering them a fascinating glimpse into emerging technologies and practical EEE applications.

8. Industrial Visit organised for ER1 students to Kudankulam Nuclear Power Project (KKNPP).

9. Organized one-day workshop on "Effective Proposal Writing and Funding Opportunities in Engineering". Resource Person: Dr. Kumaravel Sundaramoorthy (Associate Professor, NIT Calicut)

10. Phiscape Robotics and the EEE Department of TKMCE joined hands to bridge academic research with real world EV applications.

11. Scilab Workshop was successfully conducted, empowering participants with essential skills in numerical computation, simulation, and control system modeling using Scilab and Xcos

12. An orientation session titled: "The Grand Symphony Orchestra of Electrical, Electronics, and Computer Engineering" was conducted. Keynote speaker: Dr. Bindhu G R (Principal, Retd., GEC Thrissur).

13. Organized introductory workshop on "Next-Gen AI with Reinforcement Learning" Resource Person: Dr. RESMI R, Asst. professor, Dept. of EEE

14. Webinar: Scope of Entrepreneurship in Renewable Energy. A webinar on "Scope of Entrepreneurship in Renewable Energy" was held on 15 January 2025, featuring Mr. Mohamed Shaffeeq N, CEO & Founder of Illumine Energy Pvt. Ltd. He highlighted emerging opportunities in the renewable energy sector and shared valuable insights from his entrepreneurial journey, inspiring students to explore innovative career paths in clean energy.

15. Talk Session: PRAXS, GNOSIS, PROGNOSIS (Date: 22 January 2025) The department hosted an

inspiring session titled "PRAXS, GNOSIS, PROGNOSIS" by Er. Bijili Varghese, a distinguished alumnus from the 1970 batch. The speaker shared valuable professional insights, lessons from industry experience, and guidance for young engineers, motivating students to envision purposeful career pathways.

16. EVOLVE'25 – Honoring Innovation. In memory of Dr. Mohammed Shanir P P, EVOLVE'25 planned creativity and technological advanc ement in electric mobility. Highlights include the EV Safety Ideathon (₹15k prizes), Project Expo (₹3k prizes), and an E-Cycle Workshop offering hands -on experience on February 1st, 2025, a day of innovation and inspiration.

17. Industrial Visit – ALIND Relays Members of the EEE Department—including the HOD and faculty—recently visited ALIND Relays at Puliyarakkonam. The visit provided a valuable opportunity for the department staff to engage with industry practices and observe real-world applications in electrical engineering. Such interactions help strengthen the bridge between academia and industry, enriching our teaching and research perspectives.

18. Industrial Visit – Kallada Hydro Electric Project for first semester EEE students. The students of the EEE department recently went on an industrial visit to Kallada Hydro Electric Power Project at Thenmala. The visit gave them hands-on exposure to power generation and hydro electric plant operations — bridging classroom knowledge with real-world engineering. Participants obs erved turbines, transformers, control-room processes and gained insight into the workings of a hydroelectric power station.

## Faculty Publications

1. R. Rajasekharan, R. Resmi, et al., "Dynamic consensus control of linear multi-agent systems: Unma nned ground vehicle platooning," Measurement and Control, 2025, Art. no. 00202940251320330.

2. A. Kunjumon, C. Jacob, and R. Resmi, "Three-dimensional network with squeeze and excitation for accurate multi-region brain tumor segmentation," Int. J. Imaging Syst. Technol., vol. 35, no. 2, Art. no. e70057, 2025.

3. R. Devu et al., "STACKPath: A stacked classifier-based ML pathway for histopathological cancer detection," in Proc. 8th Int. Conf. Circuit, Power & Computing Technologies (ICCPCT), 2025, pp. xxx–xxx.

4. Reshmi Krishnan S; Sheeba R, "Deep Learning for Electrical Load Forecasting in an Industry," 2025 Emerging Technologies for Intelligent Systems (ETIS), Trivandrum, India, 2025, pp. 1-5, doi: 10. 1109/ETIS64005. 2025 .109607)

5. Bushara A, Sabeena Beevi K "Multi class lung disease classification Using an enhanced Vision Transformer", International Conference on Applications of AI and Machine Learning (ICAML- 2025) 22-23 February, 2025

6. Naja, M. I., and Sabeena Beevi. "EEG Based Emotion Recognition using Uniform LBP." 2025 International Conference on Advancements in Power, Communication and Intelligent Systems (APCI). IEEE, 2025.

7. Thasni Fathima S, Sabeena Beevi K, Chinnu Jacob, "Deep Learning-Based Tool Segmentation for Sinus Surgery Using Endoscopic Images", 2025 Eigh- th International Conference on Image Information Processing (ICIIP -2025) November 27 - 29, 2025, Jaypee University of Information Technology Waknaghat, Distt. Solan, Himachal Pradesh, India

## Faculty and Staff Achievements

1. Dr. Sheeba R is serving as Head of the Department Electrical & Electrical Engineering. She facilitated 4 industry interactions / MoUs, strengthening industry–institute collaboration and experiential learning and organized 6 alumni-led programs and expert talks, enhancing student exposure to industry practices and career pathways, introduced two value-added/certification programs for students with active alumni support, improving skill development and employability, successfully implemented an Industrial Elective for 6th semester students, aligning curriculum with industry requirements. She encouraged faculty professional growth through 5 FDPs /workshops, contributing to improved teaching–learning quality. Achieved a pass percentage of 87.4% for the year 2025 EEE batch, reflecting effective academic monitoring and mentoring. Upgraded 2 laboratories, coordinated and con-

ducted more than five outreach programs, promoting societal engagement and institutional visibility.

2. Dr. Bijuna Kunju delivered expert talks in Mentor and Counselling FDPs conducted by KTU and Mar Baselious Engineering College in Feb 2025 and May 2025 respectively. She was the chairperson at the International conference on "Human values in Higher Education" held in Dec 2025. She is the chief coordinator of AICTE Margadarshan scheme TKMCE. She served as Dean Administration TKMCE

3. Dr. Sabeena Beevi K. is currently serving as Dean (Administration). She served as Head of IQAC (2024–2025), contributing significantly to academic governance and quality assurance. She published five SCI-indexed journal papers and three international conference papers during 2024–2025. She is the Technical Programme Committee Chair for RAET 2026 and IC-AISC 2026, a reviewer for the SCRS conference series, and Vice Chair of IEEE Women in Biomedical Engineering (WIBE).

4 Dr. Mohammed Mansoor served as resource person on Scilab Workshop conducted in July 2025.

5 Dr. Resmi R completed the 24-week AICTE QIP PG Program on "Robotics" from IIT Pallakkad. She received the NPTEL BELIEVER recognition on successfully completing four NPTEL courses with a topper badge in two courses. She was recognised as a "Meta Reviewer" for the 12th National Power Electronics Conference 2025 held at NIT Calicut. She served as resource persons in various FDPs.

6. Dr. Sofiya S successfully completed four SWAYAM online course certification courses in the year 2025

7. Prof. Arun L completed six NPTEL courses in the current academic year and secured topper position in all six courses.

8. Dr. Ansal V served as resource person on Scilab Workshop conducted in July 2025.

9. Mr. Rejimon developed a public address system for teaching aid.

**STUDENTS ACHIEVEMENTS**

1. The department of EEE proud to announce that Amith and Akash Prasad of Electrical & Computer students have secured the First Prize at Speridian's One AI Hackathon—one of Kerala's leading AI innovation platforms for startups and student teams. Project Title: An Agentic AI Assistant for Doctors

2. Hriday S B (E5 A) secured 3rd place in the 8th District Level Energy Quiz Competition – Dr. A.P.J. Abdul Kalam Energy Quiz 2024, organized by the KSEB Engineers' Association.

GATE 2025 Achievers – EEE Department

The Department of Electrical & Electronics Engineering proudly congratulates our outstanding students who have qualified the GATE 2025 examination. Their hard work, dedication, and academic excellence have brought great pride to the department.

VI Semester Qualifiers:

• Farha S R , Megha B Pradeep, Chris Wilson, Anwar Sadiq, Hridya B, Varun Rosh K R

VIII Semester Qualifiers:

• Gopika M, Karthik V Sekhar, A V Venkata Ram Shenoy, Haridev S, Sabari S, Abhinand Prasanth

4. Placement Achievement – Mediterranean Shipping Company (MSC)

The Department of EEE, TKM College of Engineering proudly announces the placement of Rohith Krishnan, Devichandana C S, and Shuhaib Shihab as Marine Naval Electrical Technical Officers at the Mediterranean Shipping Company (MSC). The prestigious placement comes with an attractive package of 18 LPA, marking a significant milestone in the students' professional journey.

5. Team EL-trism from TKM College of Engineering secured 1st Place in HACKCADE, a coding and innovation challenge organized by CSI TKMCE

6. Midhun - Kho Kho National Level

7. Narayan U-Tennis National Level

8. Rahan – Handball National Level

9. Stride Makethon 2025 Winners - Vinayak S, Devika A P, Fathima Abdulla, Anjali Albin and Hemand Babu from thid semester, Electrical and Computer Engineering emerged as the winners of Stride Matheth-on 2025.

10. S4 EEE students developed Tranbilizer, Sidharth Shibu, Sourav S, Shahul Hameed, and Tania Elsa Stephen,under the mentorship of: Dr. Ansal V. This project was developed as part of STRIDE Makeathon 2025, hosted by the Kerala Development and Innovation Strategic Council(K-DISC) under the Kerala Startup Mission.

11. Amit P of 8th semester Electrical and Computer Engineering Student got Selected for Google Summer of Code (GSoC) 2025 to work with Chromium, the open-source framework behind Google Chrome. This remarkable achievement reflects his strong technical expertise, commitment to open-source development, and ability to contribute effectively to globally impactful, large-scale software projects, bringing great pride to the institution.

### Alumni Achievements

• Gauthem R, 2020-2024 Batch EEE, was selected through the Short Service Commission of the Indian Air Force.

• Sreenath K S (EEE, 2020-2024 batch) was recruited as a Junior Engineer at Southern Railway, Kannur.

• Venkat Shenoy (EEE, 2020-2024 batch) was placed at Udupi Cochin Shipyard Limited

• Nanda S Nair, a 2025 pass-out student from the Department of Electrical and Electronics Engineering, has secured admission to IIM Amritsar.

• TKMCE celebrates the achievement of our alumnus, Vijay Ramamurthy (EEE, 2000), for his notable contribution to Apple's breakthrough N1 chip. His work exemplifies the innovation and excellence upheld by our institution.

• TKMCE proudly congratulates our alumna, Dr. Shana Moothedath (EEE, 2011), Assistant Professor at Iowa State University, on receiving the prestigious NSF CAREER Award.

### Merit Evening Awards

1. Vaishnav A – B.Tech EEE Topper 2020-2024 Batch

2. Nanda S Nair – Certificate of Proficiency

3. Devika S D – M.Tech Power Systems Topper 2022-2024 Batch

4. Aiswarya Nair P - M.Tech IIC Topper 2022-2024 Batch

5. Vrinda T, Sarath RS - Semester Toppers EEE (S1 S2)

6. Chaithra B, Lekshmi B - Semester Toppers EEE (S3 S4)

7. Aysha Riyaz, Afsal Mohammed AS - Semester Toppers EEE (S5 S6)

8. Vaishnavi R , Ganga AV - Semester Toppers ER (S1 S2)

9. Krishna A Vinod , Anju B Raj - Semester Toppers ER (S3 S4)

10. Asmal Navas , Muhammed Althaf PA - Semester Toppers ER (S5 S6)

11. Devi Vinod - B.Tech EEE Second Topper 2020-2024 Batch

12. Rithu Krishna B , V S Pranav, Joseph Simon Biju, Godric Hillary – Best Final Year Project from EEE.

## MECHANICAL ENGINEERING

### Retired Staff

1. Dr. P. N. Dileep, Professor
2. Dr. Ashfak A., Professor
3. Dr. Shafi K. A., Professor

### MoUs Signed

• The Department of Mechanical Engineering signed an MoU with MAKS Automation Pvt. Ltd. on 11 September 2025 to strengthen industry–academia collaboration. The partnership enables student training, internships, faculty collaboration, and the establishment of an industry-sponsored Automation Lab, enhancing practical learning and employability through expert-led ind ustry engagement.

Figure 1:MoU signing ceremony between the Department of Mechanical Engineering and MAKS Automation Pvt. Ltd., in the presence of esteemed management and institutional leaders.

As part of this collaboration, MAKS Automation also designed, developed, and supplied an automated packaging system to the CIM Laboratory in December 2025, further strengthening hands-on exp osure to industrial automation and packaging technologies.

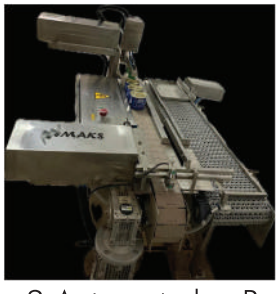


Figure 2:Automated Packaging System developed and supplied by

MAKS Automation Pvt. Ltd., installed in the CIM Laboratory for hands-on learning in industrial automation and packaging systems.

• The Department of Mechanical Engineering signed an MoU with Kerala Automobiles Limited (KAL), Thiruvananthapuram, on 14 November 2025 to promote facility sharing, technical collaboration, and the commercialization of student innovations across engineering disciplines. The MoU was jointly signed by the Departments of Mechanical Engineering, Chemical Engineering, and Electrical and Electronics Engineering, with all three departments collectively partnering with Kerala Automobiles Limited (KAL).

Figure 3:MoU signed between TKMCE and Kerala Automobiles Limited (KAL) to strengthen industry–academia collaboration and innovation.

## Recent Developments

• The NBA Expert Team visited the Department of Mechanical Engineering on 24th, 25th, and 26th October 2025 for accreditation assessment. Following the evaluation, the department was awarded three-year NBA accreditation. Consequently, the Undergraduate Programme in Mechanical Engineering is accredited by the National Board of Accreditation (NBA) for the period 01 July 2025 to 31 December 2028.

• A Piper robotic arm and a TurtleBot robot were newly added to the Mechatronics Laboratory, enhancing hands-on learning in automation and robotics with support from the TKM Trust.

Figure 4: Demonstration of the Piper robotic arm executing a controlled manipulation task during commissioning.

• A Cam Analyser and an 8-channel Strain Measurement System with Data Acquisition and Management were added to the Dynamics Laboratory to meet the requirements of the revised curriculum. The facilities were established with the support of the TKM Trust as part of the implementation of the new curriculum, strengthening experimental learning and measurement capabilities.

## Programmes Organised

### CFD Add-on Course (ANSYS Fluent)

A 40-hour hybrid CFD course conducted from 15/01/2025 to 02/08/2025 by the HRD Cell and ISHRAE TKMCE. The program prov ided hands-on training in simulatio n, meshing, and flow analysis using ANSYS Fluent, preparing students for industry and research applications.

Figure 5:Hands-on CFD training session by Dr. K. E. Reby Roy during the ANSYS Fluent Add-on Course.

### SolidWorks Add-on Course

The Department of Mechanical Engineering conducted a 40-hour Add-on Course on SolidWorks from 30 May 2025 to 18 July 2025, in association with Conceptia Software Technologies Pvt. Ltd. The progra mme aimed to enhance students' proficiency in 3D modeling, assembly design, and engineering documentation aligned with Industry 4.0 practices. The course was delivered through a blended mode with both online and offline sessions, providing hands-on exposure to real-time industrial design workflows. Key topics included sketching, part modeling, assemblies, parametric des ign, and manufacturing drawings. The programme significantly strengt hened students' technical competence, problem-solving ability, and industry readiness.

### Industrial Visit to MAKS Automation

Faculty and staff visited MAKS Automation Pvt. Ltd., Ezhukone, on 19 August 2025 to gain exposure to industrial automation, packaging machinery, and manufacturing practices. The visit strengthened industry–academia interaction and enhanced practical understanding.

Figure 6:Industrial Visit to MAKS Automation Pvt. Ltd. as part of industry–academia interaction.

### MATLAB Add-on Course

The MATLAB add-on course was officially launched on 14 September 2025 to provide students with hands-on experience in modeling,

simulation, and data analysis for engineering problem-solving.

**2-Day Primavera Software Training Programme for Faculty**

The HRD Cell of the Department of Mechanical Engineering, in association with Arcite Education, successfully organized a 2-day Primavera Software Training Programme for faculty members on 18th and 19th December 2025. The programme was conducted in two sessions each day, from 10:00 AM to 12:30 PM and 1:30 PM to 4:00 PM, at the CFD Laboratory. The training prov ided hands-on exposure aligned with the Project Management course curriculum requirements, while also offering participants industry-oriented insights into professional project planning and scheduling practices.

Figure 7:Mrs. Tingle, resource per son from Arcite Education, with faculty members of the Department of Mechanical Engineering during the Primavera Soft ware Training Programme.

## Faculty Publications and Patents

1. V. Thiagarajan, T. A. Jessin, and C. Rajendran, "Algorithms for minimization of total flow time to achieve resilience in a flow shop environment," Flexible Services and Manufacturing Journal, pp. 1–49, 2025.

2. F. P. Junaid, D. Rakshit, and B. B. Saha, "Converging passage: A strategy for uniform cell cooling in air-cooled battery thermal management systems," Thermal Science and Engineering Progress, vol. 61, Art. no. 103559, 2025.

3. M. F. Cheranchery, M. G. Karthika, and N. Firoz, "Augmenting last-mile connectivity with multimodal transport: Do choice riders favour integrated bike taxi–bus services in metro cities?" Travel Behaviour and Society, vol. 38, Art. no. 100938, 2025.

4. N. Firoz and V. V. Panicker, "Strategic insights: A system dynamics approach to analyze sustainability and cost efficiency in Indian freight transportation scenarios," European Journal of Industrial Engineering, vol. 20, no. 3, pp. 335–367, 2025.

5. D. Devasia et al., "Integrating experimental insights and CFD modeling of raceway pond optimization to enhance microalgal biomass and lipid productivity for biodiesel applications," BioEnergy Research, vol. 18, Art. no. 127, 2025.

6. Aravind et al., "Tailoring epoxy resin toughness for cryogenic conditions: An experimental approach," Journal of Reinforced Plastics and Composites, 2025.

7. Aravind et al., "Enhanced thermal endurance of PVC using iron oxide from WMO particles," Results in Engineering, vol. 26, Art. no. 105288, 2025.

8. S. Gijoy et al., "Numerical investigation and optimization of an asymmetric elliptical-cylindrical pin fin heat sink," International Journal of Thermal Sciences, vol. 209, 2025.

9. M. Anfas et al., "VOF-based analysis of bubble formation and free-surface deformation for marine aeration and cryogenic storage systems," in Proc. 8th Int. Conf. Ship & Offshore Technology, IIT Kharagpur, India, Dec. 2025.

10. V. Baiju, A. M. Martin, and V. R. Krishna, "Sustainable desalination through adsorption: Novel adsorbents, hybrid integration and emerging trends," Renewable and Sustainable Energy Reviews, vol. 226, Art. no. 116466, 2025.

11. Fang, L., Ichiyanagi, M., Sanno, M., Wang, S., Singh, H., Yilmaz, E., Baiju, V., & Suzuki, T. (2025). Influence of pre-chamber nozzle and main chamber geometry on ammonia combustion: A co mbined experimental and predictive study. Applied Thermal Engineering, 285, 129019. https://doi.org/10.1016/j.applthermaleng.2025.129019. (IF 6.9, SCIE)

12. V. Baiju, A. Midhlaj, and A. A. Sha, "Adsorption hybrid cooling systems: Material innovations, system integration, and future perspectives," Renewable and Sustainable Energy Reviews, vol. 226, p. 116229, Aug. 2025, doi: 10.1016/j.rser.2025.116229.(IF 16.3, SCIE)

13. V. Baiju et al., "Performance assessment of a solar hybrid potable atmospheric water generator," Energy Conversion and Management, 2025.

14. V. Krishna Raj et al., "Enhanced latent heat storage for solar thermal applications using tapered fins and hybrid nano-additives," Journal of Energy Storage, vol. 118, Art. no. 116308, 2025.

15. Ajmi Midhlaj, Baiju V., Angel Eby, Parthiv J. Prasad, John Joy, Ajayakumar G., Jinu B Varghese, Manas Krishnan R. S., Pranav R., Akshay Aneesh "Optimizing Desiccant Material for Hybrid Adsorption Cooling System: Multi-Criteria Selection using PSI Method and Numerical Performance Evaluation of a Composite Material" Present-

ed paper at International Conference on Mechanical Engineering and Energy Technologies (URJA-2025), Government Engineering college, Kozhikode (Conference)

16. Ashna Maria Martin, Baiju V., UG students (Revathy M. D., Sandeep S., Aby S. M. Varghese, Aparna R. Pillai, Aneesh G. Nath, Meera Krishna K., Nandana M.) "Optimizing Silica gel-Banana Peel Based Composite Adsorbents for Sustainable Water Treatment Solutions Using Numerical Analysis" Presented paper at International Conference on Recent Trends in Energy, Environment, Science and Technology (CREEST-2K25), UKF Parippally (Conference)

17. Ajmi Midhlaj, V. Baiju, UG students (Angel Eby, Parthiv J. Prasad, John Joy, Ajayakumar G., Jinu B. Varghese, Manas Krishnan R. S., Pranav R., Akshay Aneesh) "Innovative Desiccant System: Advanced Desiccant Composites for Efficient Moisture Control in Adsorption Cooling Systems" Presented paper at International Conference on Recent Trends in Energy, Environment, Science and Technology (CREEST-2K25), UKF Parippally (Conference)

18. Krishna Raj V., Baiju V., Asif Sha A., Ahammed Bilal A., Haris Hand Mohammed Irfan A. "Assessing the Performance of Nano-Composite Hydrated Salt PCM in Latent Heat Storage Systems Featuring Specialized Fin Configurations" Presented paper at 2nd Global Conference on Decarbonizing India (GCDI 2025), NIT Calicut (Conference)

19. Ashna Maria Martin, V. Baiju, Revathy M. D. "Optimisation of Pre-treatment Unit Integrated with Desalination system: A Study on Sustainable Water Treatment Using Banana Peel", Presented paper at 2nd Global Conference on Decarbonizing India (GCDI 2025), NIT Calicut (Conference)

20. Ajmi Midhlaj, V. Baiju and A. Asif Sha. "Performance Prediction and Analysis of Solar Adsorption Refrigeration System Integrated with Phase Change Material Using Artificial Neural Network", Presented paper at 2nd Global Conference on Decarbonizing India (GCDI 2025), NIT Calicut (Conference)

21. Megha R. Raj, K.L. Priya, V. Baiju, S. Selvam (2025) Fate and Transport Pathways of Microplastics in Agricultural Soil and their Interaction with Agrochemicals Book chapter for: "Handbook of Microplastic Pollution in the Environment" by CRC Press( Taylor and Francis Group) (Book Chapter)

22. J. Arun, Ansalam Raj, K. E. Reby Roy, S. Suresh. Online Acoustic Emissions for Real-Time Tensile Strength Evaluation of Stir-Cast AA8011-Nano B4C-CNT Hybrid composites: Journal of Mechanical Science and Technology (JMST), Springer 2025

23. Vijay Renjish, V. N. Aju, Sadiq A., U. Sudeep (2025) Investigation of tribological and thermal characteristics of sol-gel coated silica and alumina on A356 during sliding using Finite Element Analysis, Industrial Lubrication and Tribology, pp. 1-14,httdoi.org/10.1108/ILT-05-2025-0236

24. Muhammed Muneer S., Arun B.S, Renjish Vijay, Aju Kumar V.N., Anand Sekhar R. (2025) Microstructure and mechanical properties of AlNbTaZr-Al2O3 refractory high entropy alloy reinforced Al6061 metal matrix composite, Results in Surfaces and Interfaces Volume 20, August 2025, 100622, https://-doi.org/10.1016/j.rsurfi.2025.100622

25. Lijin Thomas, V. N. Ajukumar, Joseph Sebastian, Aditya Santhosh, Mohd Yazid bin Yahya & Mubarak Ali. (2025) Synergistic Effect of Cryogenic Surface Modification on flax fibres and dispersion of MWCNT in flax/DGEBA interface for sustainable natural fibre composites, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, doi:10.1177/09544062251325147

26. V. Hashim, A. Vijay, S. Sunil, K. S. Adithyan, and A. Amrutha Archana, "Experimental investigation on mechanical properties of water hyacinth and polyethylene terephthalate (PET) hybrid composite," in Proc. 7th Int. Conf. Modelling and Simulation in Civil Engineering (ICMSC 2024), Lecture Notes in Civil Engineering, vol. 740. Singapore: Springer, pp. 67–78, Jan. 2026.

27. M. Sadhikh, K. R. Abhijith, B. B. Nandakishor, K. Ravisankar, S. Shereef, and S. Sudhir, "Towards sustainable HVAC systems: Comparative analysis of R22 and R290 with finned-tube and microchannel condensers," Case Studies in Thermal Engineering, Art. no. 107138, 2025, doi:10.1016/j.csite.2025.107138.

28. K. R. Abhijith and M. Sadhikh, "Enhancing air conditioner efficiency: Comparative study of microchannel and finned-tube condensers," Heat and Mass Transfer, vol. 61, p. 65, 2025, doi: 10.1007/s00231-025-03586-0.

**Patents Filed/Published**

High-Entropy Alloy Reinforced with Sustainable Reinforcement Derived from Pyrolyzed Coconut Shell Waste and Method of Fabrication

1) Dr. Anand Sekhar R.
2) Renju C. Daniel

3) Dr. C. N. Shyam Kumar
4) Dr. Thamarassery Abdulja leel Jessin
5) Dr. Arun M. S.
6) Arun B. S.
7) Dr. Krishnakumar T. S.
8) Dr. Ajukumar V. N.
9) Dr. Thushara A.
10) Shifin A. S.
11) Mohith Dadu
12) Firoz N.
13) Mohamed Shahid P. A.
14) Mohammed Irfan A.
15) Thameem Muhammed R. S.
16) Haris H.
17) Muhammed

**Hand Exoskelton**

1) Ahammed Bilal A.
2) Shifin A. S.
3) Mohamed Shahid P. A.
4) Mohammed Faizal H.
5) Ajimshad A.
6) Dr. Anand Sekhar R.
7) Firoz N.
8) Mohith Dadu
9) Faraz P. Junaid
10) Mohammed Irfan A.
11) Gautham Krishna
12) Aromal Viswan V. L.
13) Jithesh S.
14) Milan Mohan
15) Rejin C. Reji
16) Ashwin Sunil
17) Achyuth J.
18) Adarsh S.

**Latent Heat Storage Unit with Tapered Fins**

1) Dr. Baiju V.
2) Ajmi Midhlaj
3) Dr Krishna Raj V.
4) Dr. Asif Sha A.
5) Dr. Priya K.L.
6) Dr. Shafi K. A.
7) Dr. Shajan S.
8) Sudheer A.
9) Mohamed Shahid P. A.
10) Shaleena Manafuddin
11) Dr. Aneesh G. Nath
12) Anu Assis
13) Dr. Abhishek P.
14) Ashna Maria Martin
15) P. G. Karthik
16) Muhammed Behzad Rajaee Kampuravan
17) Ajay Narayanan A.
18) Adheena T.

**Laptop Cooling Pad with Tapered Channel**

1) Dr. Baiju V.
2) Dr Krishna Raj V.
3) Muhamad Lasim
4) Malavika Pradeep
5) Nandana E.
6) Lamia Shafi
7) Anu Assis
8) Dr. Shafi K. A.
9) Shaleena Manafuddin
10) Dr. Sigi Kumar T. S.
11) Dr. Asif Sha A.
12) Santhosh T.
13) Ashna Maria Martin
14) Ajmi Midhlaj
15) Dr. Rijo Jacob Thomas
16) Rizwan Rasheed

## Faculty and Staff Achievements

1. Dr. Baiju V.

Invited as Expert Speaker at the Indo-German Bilateral Workshop on "Leveraging Radiative Cooling Potential of Surfaces: Stepping to wards Net-zero Emissions (RaCoP BuS: NET)" held at IIT Roorkee.

2. Dr. Rijo Jacob Thomas

Delivered a Distinguished Seminar at GICAN, University of Newcastle, Australia, on "Research at TKM on Materials and Allied Areas."

3. Dr. Baiju V.

Delivered a Distinguished Lecture on research initiatives of the Energy Research Lab, TKMCE at the University of Newcastle, Australia.

4. Dr. Firoz N.

Awarded PhD for his doctoral thesis on Modelling and Analysis of Indian Freight Transportation in Decarbonisation Scenarios from National Institute of Technology Calicut on 20th Aug 2025.

Dr. Firoz N. has been appointed as Associate Dean, Alumni Affairs, TKMCE since December 2025.

5. Dr. Hashim V.

Awarded the Faculty All Star Supporter Award 2024–25 by ASME India Student Section Recognition Program for outstanding faculty contributions and support.

6. Dr. Baiju V.

Invited as Speaker at the 9th International Conference on New Ene rgy and Future Energy Systems (NEFES) held at the University of Gyor, Hungary, and presented research on "Experimental Investigations of Solar Hybrid Atmospheric Water Generator for Potable Water Generation."

7. Dr. Rijo Jacob Thomas

Recognized as an NPTEL Discipline Star for completing over 50 weeks of courses with excellent performance. Successfully completed 9 NPTEL courses and is pursuing 2 more. Felicitated at IIT Madras. And also published 2 patents in 2025

8. Dr. Aju Kumar V. N. and Dr. Sadiq A.

Successfully guided Dr. Renjish Vijay in the successful defence of his PhD thesis.

9. Dr. Rijo Jacob Thomas, Dr. Mathew Skaria, and Dr. Shafi K. A. successfully guided Mr. Binet Monachan.

A proud academic achievement for Dr. Rijo Jacob Thomas and Dr. Mathew Skaria, Department of Mechanical Engineering, as their PhD scholar Mr. Binet Monachan (NDF) successfully defended his doctoral thesis. The research was carried out under a Department of Atomic Energy–funded project and resulted in three SCI journal publications. Mr. Binet has also been campus-hired by Skyroot Aerospace, Hyderabad, marking a significant outcome of their effective mentorship and research guidance.

10. Dr. Shafi K. A. and Dr. Rijo Jacob Thomas

Under the guidance of Dr. Shafi K. A. and Dr. Rijo Jacob Thomas, Mr. Sigikumar T. S., Research Scholar of the Department of Mechanical Engineering, successfully defended his PhD thesis on 26 September 2025.

11. Dr. Firoz N. has delivered an expert talk in online STTP on Applications of Operations Research and Data Analytics in Transportation and Logistics organised by Centre of Excellence in Logistics and Supply Chain Management and Department of Mechanical Engineering NITC.

12. Dr. Rijo Jacob Thomas has carried out collaborative research on Robotics with the researchers at Centre for Biomedical and Robotics Technology, BART Lab, Faculty of Engineering, Mahidol University, Thailand and published a paper.

Dr. Rijo Jacob Thomas has been appreciated for his contributions in securing funding and fostering collaborations in the Alumni Merit Evening 2025.

Dr. Rijo Jacob Thomas participated in the School on Superconductivity and Cryogenics at the Institute of High Energy Physics (IHEP), Chinese Academy of Science, Beijing China during March 2025.

14. Dr. Ajukumar V. N. has been appointed as Assistant Controller of Examinations during October 2024 to 31st December 2025.

Dr. Ajukumar V. N. has been appointed as Coordinator IQAC since 1st January 2026

15. Dr. Sadiq A

Appointed as Principal in-Charge, with effect from 01/06/2025

Published two peer reviewed SCIE journals:

1. Vijay, R., Ajukumar, V.N. and Sadiq, A. (2025) 'Investigation of tribological and thermal characteristics of sol–gel coated silica and alumina on A356 during sliding using finite element analysis', Industrial Lubrication and Tribology. https://doi.org/ 10.1108/ ILT-09-2023-0305.
2. Kavitha Mol, S., Sadiq, A., Salem, S.C., Sreenivasa, V., Viswamurthy, S.R. and Sugun, B.S. (2025) 'Influence of new AA 2xxx layers on the energy absorption properties of fiber metal laminates', Mechanics of Composite Materials, 60(6), pp. 1117-1132. https://-doi.org/10.1007/s11029-025-10249-y

## Students Achievements

1. Vaishnav Anil Kumar, Arjun Rakesh, Anand V., Abel Johncy John, Adithyan S., Adhithyan R.

Published a patent titled "A Cryogenic Liquid Nitrogen-Based Power Generation System for Hybrid Electric Vehicles." The team worked on the concept from their 2nd year onward with the support of the IPR Cell of TKMCE for patent filing.

The ASME TKMCE Student Section

was honoured with the Distinguished Student Section Award for the second consecutive year.

3. Akmal Amani P.

Secured the Star Chair Award of the ASME India Student Section Recognition Programme for the academic year 2024–25

4. Vishnudev V., Adarsh Bhaskar S. & Ankhur S. (2022-26 Batch)

Secured early placement with Sobha Constructions at a package of 14 LPA, showcasing outstanding performance during campus recruitment.

5. Team Vegha – SAE TKMCE

Secured All India Rank 2 in Best Design and All India Rank 3 in Special Awards at the 6th Edition of SAEISS Dr. G. Padmanabhan Electric Two-Wheeler Design Competition, held at Rajalakshmi Engineering College, Chennai. The team also achieved Overall All India Rank 6 and Kerala Rank 2.

6. Team DRONA – SAE TKMCE

Secured All India Rank 1 – Best Innovative Design at the Autonomous Drone Development Challenge held at KCG College of Engineering, Chennai. Competing against 47 teams from across the country, the team received a cash prize of ₹10,000 for their outstanding performance.

7. Aravind R. Pillai, Satvik G. & Agnives S. Nair (2022-26 Batch)

Successfully placed at Elegant Marine Services with an impressive CTC of 9 LPA through TKMCE Placements 2025.

8. Abhinav Menon (2022-26 Batch)

Abhinav Menon has been selected to represent the Under-23 District Cricket Team for the State Cricket Tournament, to be held at Thumba.

9. Siva Soorya (2023-2027 Batch)

Siva Soorya has been selected to represent APJ Abdul Kalam Technological University (KTU) in the Inter-University Men's Football Tournament 2025–26.

10. Jaffin Noushad (2022-2026 Batch)

Jaffin Noushad has been selected to represent APJ Abdul Kalam Technological University (KTU) in the Inter-University Men's Football Tournament 2025–26.

11. Godson (2023-2027 Batch)

Godson has been selected to represent APJ Abdul Kalam Technological University (KTU) in the Inter-University Men's Kabaddi Championship 2025–26.

**Alumni Achievements**

1. Arjun Vinod (2021–25 Batch)

Arjun Vinod has been selected as a Sub-Lieutenant in the Indian Navy under the Short Service Commission (Technical – Engineering Branch).

2. Mahesh V. (B.Tech Mechanical Engineering 2010–14, M.Tech IR CE 2015–17)

Joined as an Assistant Professor in the Department of Mechanical

Engineering, College of Engineering Trivandrum.

3. Noel Rebu Sam (Mechanical Engineering, 2020-24 Batch)

His dedication and excellence in CFD have earned him a secured admission to Texas A&M University.

4. Gayathri Prasad T. (Mechanical Engineering, Batch 2017–2021)

Secured a prestigious position as an Aerospace Structural Repair Design Engineer (HEO) at the UK Ministry of Defence, Royal Air Force Wittering (from March 2025). After completing her B.Tech (Hons.) at TKMCE, she pursued an MSc in Aerospace Vehicle Design at Cranfield University, UK, gaining strong expertise in composite structures, finite element analysis, and aircraft design.

5. Royce Mathai Rojimon (Mechanical Engineering, 2020-24 Batch)

Secured admission to the PhD programme in Aerospace Engineering at the Indian Institute of Technology (IIT) Madras, one of India's premier research institutions.

6. Devu B. Ajay (Mechanical Engineering, 2020-24 Batch)

Secured admission to the Master of Business Administration (MBA) prog ramme at the prestigious Vinod Gupta School of Management (VG SoM), IIT Kharagpur for the academic session 2025–27.

7. Sandra Sunil (Mechanical Engineering, 2020-24 Batch)

Secured admission to the MBA programme at IIT Delhi, one of India's premier management institutions.

8. Fardeen Khan K. (Mechanical Engineering, Batch 2019–23)

Secured admission to the M.Des (Product Design) programme at the prestigious National Institute of Design (NID), Ahmedabad, achieving an outstanding All India Rank (AIR) 4 in both Product Design and Universal Design.

**Merit Evening Awards**

•Alumni Proficiency Award-Akshay Ashok (2021-25 Batch)

•Merit Certificate-Prithviraj Jayaram (2021-25 Batch)

•Prof. N. I. Stephen Gold Medal -Chandan Pramod (2022-26 Batch)

•Prof. P.A. Abraham Cash Prize -Santhanan M. M. (2024-28 Batch)

•Dr.Ziaudeen Memorial Gold Medal-Prithviraj Jayaram (2021-25 Batch)

•Thaj Memorial Award for Excellence - Prithviraj Jayaram (2021-25 Batch)

•Prof. S.A.H. Razvi Memorial Gold Medal - Prithviraj Jayaram (2021-25 Batch)

•Prof. K. Balachandra Sarma Cash Prize - Chandan Pramod (2022-26 Batch)

•Prof. K. Balachandra Sarma Cash Prize -Rueban M. Jacob Vaidyan (2021-25 Batch)

•Vysakh Memorial Cash Prize - Chandan Pramod (2022-26 Batch)

•Sri. Jacob Varghese Memorial Endowment Cash Prize - Chandan Pramod (2022-26 Batch)

•K. A. George Memorial Gold Medal- Rueban M. Jacob Vaidyan (2021-25 Batch)

WHEELZ 07 Endowment Scholarship-

1.Gopika V Nair (2022-26 Batch)

2.Chandan Pramod (2022-26 Batch)

3.Vaishnav Anil Kumar (2022-26 Batch)

•Prof. S. Ahamed Kunju Memorial Cash Award- Prithviraj Jayaram (2021-25 Batch)

•Prizes Introduced by Alumni & PTA for Highest Mark, First Appearance (2 Students each from All Semesters)

(2024-2028 Batch)

1. Afnan N
2. Sreenivas Prasad Prabhu & Santhanan M. M.

(2023-2027 Batch)

1. Anaga Chandran
2. Mithila Mohan

(2022-2026 Batch)

1. Chandan Pramod
2. Gopika V Nair

•Name of student (PG) secured highest marks from the department (from 2022-2024 batch)- Haripriya A.

## CHEMICAL ENGINEERING

**Retired Staff**

•Department of Chemical Engineering has signed an MoU with Xcellogen Biotech, a dynamic bio-startup in Trivandrum.

**Programmes Organised**

1. The Alumni Batch of 1991-95 Chemical Engineering (Cyanides 95) has sponsored the TKMCE Chemical Engineering Excellence Award—an annual recognition celebrating the brightest Chemical Engineering students at TKM College of Engineering. The award consists of a cash prize of Rs. 25,000 and a citation. The selection process, meticulously crafted by a committee consisting of the faculty members from Chemical Engineering Department and the 1995 Batch Alumni, ensures a fair and rigorous evaluation. Each year, the award will honor a standout student who excels in academics, technical innovation, leadership, and impactful contributions to Chemical Engineering. This year Mr. Jayashankar, Seventh Semester student won the award. He had a CGPA of 9.28; GATE Score 354; Internship at IIT Bombay; Vice Chairperson, IEI Chemical Engineering Chapter (2024–25); Kabaddi Champion (1st Prize Zonal 2023, 2nd Prize 2024), Percussionist in Vrindavadyam & Eastern music and an active NSS Member

2. The Department of Chemical Engineering organized an enriching Alumni Interaction Programme titled "Lessons Beyond the Classroom", featuring the 1991–95 Chemical Engineering batch alumni, who are now distinguished professionals across industry, academia, energy, and safety sectors in India and abroad The session brought together an eminent panel comprising Dr. Manju M. S., Head of the Department, Chemical Engineering, Government Engineering College, Kozhikode; Girish D. Babu, Chief Manager–Technical (Operation), Rare Earths Extraction Plant, IREL; Rajesh Thilak J., Director – Plant Engineering, Technosoft Engineering Projects Ltd.; Virendra Singh, Director, Vidyagram International School, Jaipur; Nizarudeen, Project Manager – Reservoir Performance Evaluation, Schlumberger (SLB), UAE; Vijayakumar M. U., Head of Unit, KMML; Manoj P. L., Senior Specialist – Energy, Sustainability & Decarbonization, ADNOC, UAE, and Co-founder of Epinox Prompt Consulting Engineers Pvt. Ltd. and thementors.co.in; Indu S. Nair, Chief Manager–Technical (Chemical), IREL (India) Limited, Research Centre, Kollam; Sabin Davis, Deputy General Manager (Operations), Kochi Refinery, BPCL; Joe P. John, Chief Manager (Operations), Petronet LNG Limited, Kochi Terminal; and Pramod P., Nuclear Safety Assessor, EDF Nuclear Generation, UK.

3. An alumni interaction session was organized with the 2005 batch graduates, providing B.Tech students with valuable career guidance and industry insights. The alumni shared professional experiences from leading national and international organizations. The distinguished alumni included Reenamol, DGM (Process), Engineers India Limited (EIL); Lallu G. Sharma, Manager (Chemical), Brahmaputra Crackers and Polymers Limited; Syama, Assistant Professor, Government Engineering College, Kozhikode; Jameel, Optimization and Capital Planning Engineer, KIPIC; and Ben Lawrence, Senior Engineer – Pipelines (Onshore/Offshore Assets), QatarEnergy. A key highlight was the continued support of the 2001–05 batch, which has been contributing ₹10,000 per month since 2021 towards the Merit Cum Means Scholarship for deserving B.Tech students.

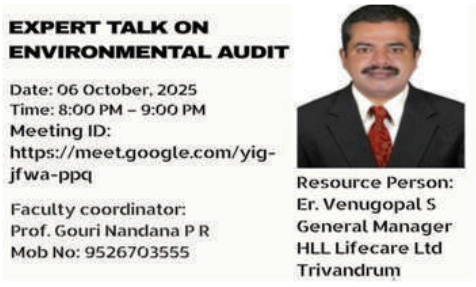
2005 Batch Alumni interacting with B.Tech students

4. Dr. Venugopal R. IPESS, Distinguished Alumnus of TKM College of Engineering, delivered an expert talk on "Safety Leadership During Turbulent Times," sharing practical insights from his extensive career in industrial safety. He drew upon his experience of investigating over 120 industrial accidents, highlighting major safety lapses and preventive strategies. Referring to the Sivakasi factory explosion, Dr. Venugopal explained how his role as Investigation Officer and later as Controller of Explosives, PESO, led to a remarkable reduction in accidents from 63 to 2 per year over three years. He also spoke about his

responsibilities as Deputy Chief Controller of Explosives, PESO, including ensuring safety during the Maradu apartment demolition through controlled implosion.

Dr. Venugopal R., IPESS, delivering an expert talk on 'Safety Leadership during Turbulent Times

5. The Department organized an Expert Talk on Environmental Audit as part of the V Semester B.Tech Energy and Environmental Audit course. The session was delivered by Er. Venugopal Sreekantan Nair, General Manager, HLL Lifecare Ltd., Thiruvananthapuram, and an alumnus of the department. He emphasized the role of environmental audits in ensuring regulatory compliance, enhancing sustainability, and improving industrial environmental performance, sharing practical insights from industry experience. The session was informative and beneficial for the students.




6. An Industrial Safety session was conducted by the General Manager of HLL,Er. Venugopal Sreekantan Nair, focusing on the importance of internship training in developing industry-oriented skills and safety awareness.

The 30-year reunion of the 1995 Batch was commemorated with a solemn Guruvandanam, as alumni paid tribute to the teachers whose guidance and values have shaped their personal and professional journeys over three decades.

The 20th Alumni Get-Together of the 2005 Batch was marked by a meaningful Guruvandanam, where alumni expressed their heartfelt gratitude to the teachers who nurtured and guided them.

Talk on "Prospectus in Chemical Engineering" by Dr. Saurabh Sahadev, Associate Professor, GEC Thrissur.

Talk on "An Introduction to Chemical Engineering" by Mr. Akshay N, Assistant Manager, FACT Ltd.

## Other Programmes

7. The Department of Chemical Engineering had the privilege of hosting Mr. Sreenath K. R., PMP®, Vice President – Computational & Infrastructure Systems, Volvo Group, Sweden, for an interactive session with students. Drawing from his 19+ years of global experience with leading automotive organizations including Volvo, Mercedes-Benz, Ford, and Mahindra & Mahindra, Mr. Sreenath shared valuable insights on industry practices, technological advancements, and career growth. The session proved highly motivating and informative for the students.

8. Seminar on Research Prospects in Industrial Safety Engineering delivered by Dr Sreejith Mohan, Head of the Department, Fire and Safety Engineering, NIT Trichy, focusing on higher studies, research pathways, and emerging safety domains for Chemical and Safety Engineering students.

9. Seminar on Introduction to Electrical Safety by Mr. Rajan K., Retired Electrical Inspector & KSEB Safety Trainer, organised by IEI Chemical Student Chapter, emphasising statutory provisions, industrial electrical hazards, and preventive safety practices.

Mr. Rajan K., Retired Electrical Inspector & KSEB Safety Trainer, addressing students during the seminar

10. Webinar on Thermal Issues and Cooling Techniques of Lithium-ion Batteries in EV Battery Packs, delivered by Dr. Shijina S. S., highlighting thermal runaway risks, cooling strategies, and sustainability challenges in electric vehicles.

11. CELESTRA–2025, a flagship Techno-Cultural event organised by the Department of Chemical Engineering, featuring technical workshops, student competitions, cultural programs, and inter-departmental participation.

12. 6-Day AICTE ATAL FDP on Sustainable Engineering and Carbon Neutrality with 163 participants nationwide.

List of session experts:

Shri. B V Subhash Babu, Registrar Energy Management Centre, Kerala

Dr. Vinu R, Professor Department of Chemical Engineering IIT Madras.

Sri. Sivaramakrishnan G, Technology Business Consultant Clean Energy Segment Hydrogen energy World Resources Institute - India (WRI-India) Ernakulam, Kerala

Dr. Sonal K. Thengane, Associate Professor Department of Hydro and Renewable Energy IIT Roorkee

Dr. Vaishakh Nair, Assistant Professor Department of Chemical Engineering NIT Surathkal, Karnataka.

Dr. Juan Carlos Colmeneres, Professor Institute of Physical Chemistry Polish Academy of Sciences, Poland.

Dr. Ajith Gopi, CEO Zonergia Services Pvt.Ltd Technopark, Thiruvananthapuram.

Dr K Rajendran, Director KSCSTE Institute for Climate Change Studies-Government of Kerala,India

Prof Aravind P V, Professor and Chair of Energy Conversion Energy Sustainability Research Institute University of Groningen, Netherlands.

Dr. K B Radhakrishnan, Professor and Head, Department of Biotechnology and Biochemical Engineering SCT College of Engineering.

Dr. Muhammad Rabeeh V, Scientist Dr.Moopen's Medical College, Meppadi Wayanad, Kerala

Dr. Manikandan S, Assistant Professor, Dept of Mechanical Engineering, SRM University, Chennai

Shri Venugopal S, Joint General Manager HLL Life Care Ltd. (Govt. Of India)

Brochure of Atal FDP on sustainable engineering and carbon neutrality

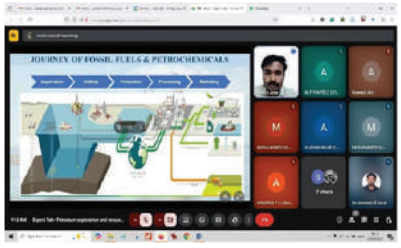
13. International Workshop (spanning 30 hours) on Bridging Theory and Practice in Oil & Gas Process Engineering, organized in collaboration with AFZAR Consultancy LLC, Sharjah, UAE, featuring industry professionals and hands-on exposure to real-world oil & gas process challenges.

The Department of Chemical Engineering, TKM College of Engineering, had the privilege of hosting Dr. F. Q. Mir, Associate Professor, Department of Chemical Engineering, NIT Srinagar. During his visit, Dr. Mir interacted with faculty members and visited the department laboratories. He offered valuable suggestions to enhance research facilities and academic initiatives, contributing to improved efficiency and effectiveness. The department gratefully acknowledges Dr. Mir for sharing his expertise and encouraging excellence in research and innovation.

Laboratory visit by Dr. F. Q. Mir during his interaction with the department

14. Hands-on Workshop on Design Expert Software organized jointly with IEI Chemical Student Chapter.

15. Expert Talk on Petroleum Exploration and Resources by Mr. Justin Jose, ONGC Ltd.




Screenshot of the G Meet link of the talk on petroleum exploration and resources

16. The IIChE TKMCE successfully organized a three-day workshop on DWSIM and Simulink, led by Dr. Shijina S. S., Assistant Professor, Department of Chemical Engineering. The workshop focused on process simulation and modeling using industry-relevant tools.

17. As part of experiential learning in 2025, UG and PG students of the Department undertook a series of industrial visits to gain practical exposure to real-world industrial operations. The visits included HLL Lifecare Limited, BPCL Kochi Refinery, Indian Oil LPG Bottling Plant, Parippally, Vikram Sarabhai Space Centre (VSSC), BPCL Kochi Refinery,NIOH Ahmedabad.

Final year BTech students in front of NIOH Ahmedabad

## Faculty Publications & Patents

1. Shan Sahar and Ramanathan Srinivasan(2025), Elucidation of the Oxygen Evolution Reaction Mechanism on Platinum in an Alkaline Medium.International Journal of Hydrogen Energy, Vol.126 , pp. 227–237.

2. A.Fazil., S. Kumar., & S.M. Mahajani.(2025), Pyrolysis of High Ash Gasifiable Waste Materials – Evaluation of Kinetic Parameters using Thermogravimetric Analysis for Energy Extraction., Canadian Journal of Chemical Engineering , pp. 1–16.

3. Fazil A and A. S. Mohan(2025), Assesement of Safety Margin for HAZMAT Transporation by, published in the Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Material Sciences and Technology , pp. 315-327.

4. UK Design Patent granted for an Innovative Lifesaving Healthcare Device developed by Dr. Shijina S. S., contributing to patient safety and emergency healthcare innovation.

5. Archana S. R. & . Anu N., Minimizing Dust Explosion in Chemical Looping Combustion Process Using an Engineered Oxygen Carrier., by in Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Materials Science and Technology.

6. Lakshmi G. S., Parvathy B., Nishad S., S. M. Sam, Saibi R., and Al Ameen A.(2025), D-Limonene Based Binder for Sulfur Cathodes in Lithium–Sulfur Battery" published in the Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Materials Science and Technology, Volume 4 , pp. 151–162.

7. Lakshmi G. S., Parvathy B., Nishad S., S. M. Sam, Saibi R., and Al Ameen A. (2025), "Development of a D-Limonene Based Binder for Sulfur Cathodes in Lithium–Sulfur Battery"published in the Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Materials Science and Technology, Volume 4, pp. 151–162.

## Faculty and Staff Achievements

1. NPTEL course on Accreditation and Outcome Based Learning with 98% score (Top 1%) – Dr. Fazil A.

2. Completion of NPTEL course on Sustainable Engineering Concepts and Life Cycle Analysis – Muhammed Anzil P K., Dr. Anu N

3. Muhammed Anzil P K, won the Best Oral Presentation Award in Pyroasia-2025, International Symposium on Analytical and Applied Pyrolysis held in Thailand

4. Manikandan P M, won the Best Oral Presentation Award in Pyroasia-2025, International Symposium on Analytical and Applied Pyrolysis held in Thailand

5. Faculty members Dr. Fazil A Dr. FEMINA A Dr. Saibi R. Prof. Al Ameen and Dr. Shijina S S from the Chemical Engineering Department, had the privilege of attending the Global Hydrogen & Renewable Energy Summit 2025, held on March 12-13 at Lulu Bolgatty International Convention Centre, Kochi. The summit brought together industry leaders, policymakers, and researchers to discuss green hydrogen, renewable energy advancements, and India's path to a carbon-neutral future.

6. Completion of NPTEL course on Biomass Conversion and Biorefinery – Muhammed Anzil P K.

7. Served as Resource Person for STTP on Integrating SDGs into OBE Framework – Dr. Fazil A.

8. Gouri Nandana P.R, Assistant Professor, Department of Chemical Engineering, TKMCE , Kollam served as a Keynote Speaker in the International Conference on Advances in Artificial Intelligence, Mechanical, Mechatronics, Electrical, Electronics, Computer Science & Civil Engineering (ICAMEC 2025) held on December 18th and 19th, 2025 at Malabar College of Engineering & Technology, Thrissur.

## Student achievements

1. Second Prize forSmart Irrigation: An automated Plant irrigation system for sustainable agriculture and home gardening at Greenchem Innovation Competition 2025 held at IEI Trivandrum Regional Centre by S. Vinayak Ram, Surabhi Krishna, Adithya Sunil, and Adithiya K P, under the guidance of Dr. Shijina S. S.

2. Third Prize for Thermo-regulating Phase Change Material Gown for Healthcare at Greenchem Innovation Competition 2025 by Aman Mohamed P M, Muhammed Ameen K M, Adwaith P V, Noora Mujeeb Rahman, and Neeraj G S, guided by Dr. Shijina S. S.

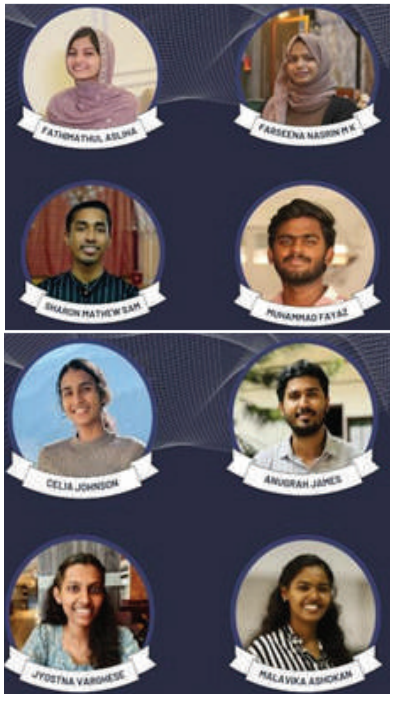
3. Second Prize, Poster Presentation at SCHEMCON'25 – Heloise Jose, Ardra Sankar & Vrindha Ravi.

4. 2025 Batch B.Tech students Rinsha P. Nasim, Fathimathul Asliha Sherin, Nawal Fathima, and Parvathy B emerged as winners of the Plant Lipids EIR Bootcamp with their innovative product "Cycle Bites." The project received financial support for further development after evaluation by industry experts, highlighting the students' innovation and entrepreneurial approach.

5. The B.Tech final-year academic toppers of the Department of Chemical Engineering, TKM College of Engineering, are Aashna Saifudeen (CGPA 9.65), Lakshmi Gayatri S (CGPA 9.33), and Abhijith M. R. (CGPA 9.23).

6. The M.Tech Industrial Safety and Engineering academic toppers of the Department of Chemical Engineering, TKM College of Engineering, are Adarsh S. Mohan (CGPA 9.95) and Asish Mani Abraham (CGPA 9.95).

7. The Department of Chemical Engineering, TKM College of Engineering, reports that 8 B.Tech final-year students have been selected by Reliance Industries Limited through the National Level Graduate Engineer Trainee (GET 2024) recruitment process.




8. Three students from the MTech Industrial Safety & Engineering (2024–2026) batch: Adithya Raj B P, Devadeth S, Georgy T Vinu have been placed atLarsen & Turbo—one of India's most reputed engineering conglomerates.

9. Muhammed Ameen K M, final-year B.Tech student, have secured placement offer with MRF

– a pioneer and leader in the industry.

10. Angel Eby, B.Tech Chemical Engineering student (2023–27 batch), has achieved notable academic and international recognition during January–December 2025. She authored a book chapter titled "Adsorbent Materials: Principles and Properties for Cold Storage Applications", published in Advances in Renewable Energy Engineering (Volume 8) by AkiNik Publications, focusing on sustainable cold storage and refrigeration technologies. Additionally, she was selected as a UN Millennium Fellow (Class of 2025) under the United Nations Academic Impact (UNAI) and Millennium Campus Network (MCN), a prestigious global fellowship aimed at advancing the UN Sustainable Development Goals (SDGs) through student-led initiatives and international collaboration.

11. Sameeh 8th semester chemical engineering student selected to APJ Abdul Kalam Technological University Men's Football team for the inter university football tournament 2025-26.

12. Swaty, 6th semester B.Tech Chemical Engineering student, was selected to represent the APJ Abdul Kalam Technological University Women's Football Team in the Inter-University Football Tournament h versity.

13. "Minimizing Dust Explosion in Chemical Looping Combustion Process Using an Engineered Oxygen Carrier" by Archana S R and Dr. Anu N, presented at the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS), organized by Government Engineering College, Thrissur (2025).

14. "From Waste to Resource: Optimizing Hydrothermal Processing of Plastic Waste into Functional Hydrochar"by Nanditha A, Hridyamol M A, Fathima Sherin M, Sreelakshmi J, and Shijina S S, presented at SCHEMCON, organized by VIT Vellore (2025).

15. "From Waste to Resource: Optimizing Hydrothermal Processing of Plastic Waste into Functional Hydrochar"by Nanditha A, Hridyamol M A, Fathima Sherin M, Sreelakshmi J, and Shijina S S, presented at SCHEMCON, organized by VIT Vellore (2025). (Multiple student presentations of the same work)

16. "Stormwater Management Using Zeolitized Fly Ash for Sustainable Urban Drainage Systems" by Hiba Ismail P I, Aparna R, Aishwarya V, Sreenath S, and Prof. Fazil A, presented at CHEMCON-24, organized by IICHE (NIT Jalandhar) (2024).

17. "Laminar-Regime Microfluidic Architecture for Enhanced Mass Transfer and Reaction Control" by Hiba Ismail P I, Aparna R, Aishwarya V, Sreenath S, and Prof. Fazil A, presented at SCHEMCON-25, organized by IICHE (VIT Vellore) (2025).

18. "Microplastic Removal Using MOF-Based Composite Materials: A Sustainable Water Treatment Approach" by Anushika S, Neethu Mohan, Amrutha P, Sidharth S, and Prof. Fazil A, presented at SCHEMCON-2025, organized by VIT IICHE Student Chapter (2025).

19. "Value-Added Compounds: A Pathway to Circular Economy and Sustainable Development" by Amal Pramod, Nandu Mohan, Sanjay Krishna, Girishankar, and Sanjith Santhosh, presented at SCHEMCON-25, organized by IICHE (2025).

20."Sustainable Removal of Microplastics Using Advanced Adsorbent Materials" by Anisree P, Athira R, Sreerag K, Abhijith S, and Prof. Fazil A, presented at SCHEMCON-2025, organized by IICHE VIT (2025).

21. "Green Hydrogen Production and Storage: Challenges and Opportunities in the Energy Transition"by Nandu Mohan K, Sanjay Krishna, Girishankar, Sanjith Santhosh, and Prof. Fazil A, presented at SCHEMCON, organized by IICHE, VIT Vellore (2025).

22. "Artificial Photosynthesis for Sustainable Energy Sources" by Jayashankar J, Vandana M, Roopa Krishna, Sinoj Manoj, and Prof. Fazil A, presented at the International Conference on Sustainable and Resilient Futures, organized by Amrita University and its UNESCO

Chair on Experiential Learning for Sustainable Innovation and Development (2025).

23."Development of a D-Limonene Based Binder for Sulfur Cathodes in Lithium–Sulfur Battery" by Lakshmi Gayatri S., Parvathy B., Nishad S., Sharon Mathew Sam, Saibi R., and Al Ameen A., published in the Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Materials Science and Technology, Volume 4 (2025), pp. 151–162.

24. "Immobilized Nitrogen-Doped $TiO_2$ Nanoparticles on Electrospun Polyacrylonitrile Fibres: Performance Evaluation in a Tubular Photocatalytic Reactor" by Aashna Saifudeen, Abhijith M. R., Anugrah James, Jyostna Varghese, Nirmala Rachel James, Gomathi Nageswaran, and Al Ameen A., published in the Proceedings of the International Conference on Recent Advances in Materials, Processes and Technology for Sustainability (RAMPTS 2025), Atlantis Highlights in Materials Science and Technology, Volume 4 (2025), pp. 522–535.

### Merit Awards

Excellent Chemical Engineering Student Award instituted by the 1991–95 Alumni Batch awarded to Jayashankar J (7th Semester, CHE2K22) in recognition of academic excellence (CGPA 9.28, GATE Score 354 – AIR 2193), leadership as Vice Chairperson IEI, research internship at IIT Bombay, sports achievements, and social service through NSS.

2. Alumni Proficiency Award 2025

AASHNA SAIFUDEEN (2021-2025)

3. Merit Certificate

AASHNA SAIFUDEEN (2021-2025)

4. Prof. N. I. Stephen Gold Medal

Saniya Shaji Kani (2022-2026)

5. Prof. P.A. Abraham Cash prize

Mohammed Sahad – S (2024- 28)

Steven Boby Varghese (2024- 28)

6. Dr. Ziaudeen Memorial Gold Medal AASHNA SAIFUDEEN (2021-2025)

7.Thaj Memorial Award for Excellence AASHNA SAIFUDEEN

(2021-2025)

8. Sri. P V. Jacob Gold Medal

AASHNA SAIFUDEEN (2021-2025)

9. Prizes introduced by Alumni & PTA for Highest mark, first appearance (2 students each from all semesters)

1st year

STEVEN BOBY VARGHESE

ANAGHA V SURESH

2nd year

ANANYA NEENU ANIL

MUHAMMED FAZAL S

3rd year

Saran S

MUHAMMED SALIH E T

## MCA

### Programmes Organised

1. A hands-on workshop on "FastAPI" was conducted by Nithin S. V., Full Stack Developer, Neural Garage Pvt. Ltd., Bengaluru, Karnataka, on 3rd and 11th March 2025.
A seminar on "A Path way to banking" was delivered by Mr.Abhiram S. S., Software Engineer, Federal Operations and Services Ltd., Kochi, on 04th March 2025.
2.A one-day workshop on "DevOps Development" was conducted by Anandu B. S., DevOps Engineer, NeuralGarage Pvt. Ltd., Bengaluru, on 26th and 30th April 2025.
3.A one-day workshop on "DevOps Development" was conducted by Anandu B. S., DevOps Engineer, NeuralGarage Pvt. Ltd., Bengaluru, on 30th April 2025.
4. A seminar on "Basic to Programming Languages" was delivered by Ms. M. R. Seethalekshmi, Industrial Expert, TCS held from 31st July to 13th August 2025
5. A seminar on "Programming Trends" was delivered by Rahul R, Data Engineer, Barracuda Networks, Bengaluru, on 22nd October 2025

### Faculty Publications & Patents

1. R. Manmadhan and S. N. Beevi, "Enhancing Bipolar Disorder Diagnosis with Custom Loss XGBoost for Imbalanced Multiclass Classification," in Proc. 2025 11th IEEE Int. Conf. Biosignals, Images, and Instrumentation (ICBSII), Chennai, India, Mar. 26–28, 2025
2. Shamsu, S., Kafle, D., Maroo, D., Nagar, K., Bhargavan, K., and Sivaramakrishnan, K.C. 2025. A Mechanically Verified Garbage Collector for OCaml. Journal of Automated Reasoning 69, 11 (May 2025), Article 11. DOI:https://doi.org/10.1007/s10817-025-09721-0
3. N. A. Rahila and S. NaderaBeevi, "Multimodal Iris Feature Extraction and Recognition Using Gabor Filters, Wavelets, and Local Binary Patterns," in Proc. 1st Int. Conf. Recent Innovations and Trends in Electrical & Electronics Engineering and Computing (RITEEC 2025), Patna, India, May 22–23, 2025
4. N. A. Rahila, S. NaderaBeevi, R. Amal Ashok, P. P. Anand, and S. Abhishek, "Enhanced Biometric Iris

Feature Extraction Using Multi-Level DWT-DCT Fusion for Rob ust Recognition," in Proc. 2025 2nd Int. Conf. Advancements in Power, Communication and Intel ligent Systems (APCI), Kannur, India, Jun. 27–28, 2025

5. R. Shajaha, R. Fousia, M. Shamsudeen, and S. Sundar, "Alzheimer's Disease Prediction and Classification Using Deep Learning Techniques," in Proc. Int. Conf. Data Sci. Commun. Eng., Singapore, Aug. 2025, Lecture Notes in Networks and Systems, Springer Nature Singapore, pp. 267–276, doi: 10.1007/978-981-96-4543-5_19

6. A. Saji and F. M. Shamsudeen, "Transformer Based Classification of Closely Related Dravidian Languages in Code-Mixed Data," in Proc. 2025 Emerging Technologies for Intelligent Systems (ETIS 2025), 2025

7. S. Anoopa and S. Nadera-Beevi, "Complexity Analysis of Hierarchical Tucker- Based Tens or Decomposition in 3D CNN and LSTM Architectures for Video Data," in Proc. 2025 11th IEEE Int. Conf. Smart Computing and Communications (ICSCC 2025), Kochi, India, Jul. 3–5, 2025

8. R. P. Rohith, F. M. Shamsudeen, and C. Jacob, "Deep Learning Technique for Predicting Lung Cancer Using Genome Sequence," in Proc. IEEE Int. Conf. Innovate for Humanitarian: Tech Solutions for Global Challenges (ICIH 2025), Indore, India, Nov. 21–22, 2025

### Faculty and Staff Achievements

1. Dr. Fousia M. Shamsudeen received the Best Project Award at TKM College of Engineering for her guidance of the project titled "ViraBlue Print: Unlocking and Classifying Viral Genomes" in 2025.

2. Prof. SheeraShamsu attended the ICFP/SPLASH 2025 conference held in Singapore from October 12–18, 2025. with full funding.She actively participated in the OCaml Users and Developers Workshop (OCaml 2025), which is co-located with ICFP/SPLASH.

3. Prof. SheeraShamsu presented her research titled: "A Mechanically Verified Garbage Collector for OCaml" at the OCaml Workshop.

4. Prof. SheeraShamsuserved as a Program Committee member for the OCaml 2025 workshop, contributing to the review and organization of workshop content. Additionally, she acted as Session Chair within the workshop program.

5. Prof. SheeraShamsu was selected (with full funding) to attend the "Lean for the Curious Mathematician" workshop:This was a hands-on workshop on formal verification with the Lean proof assistant, held at the International Centre for Theoretical Sciences (ICTS), Bengaluru, from April 24–26, 2025.

### Student achievements

- Ms.Seethalekshmi (2023 batch) presented her work titled "ViraBlue Print: Unlocking and Classifying Viral Genomes" at TKM College of Engineering (2025) and received the Best Project Presentation Award
- Ms.Rahila N. A., PhD Scholar was selected for a poster presentation at Pravaha RSD 7.0, IIT Palakkad.
- Six MCA students of the 2025 batch successfully cleared the UGC-NET, demonstrating exceptional academic preparation.
- Ajinsha K. (2023 batch) secured JRF marking a remarkable milestone in academic excellence.
- A team of four MCA students won 2nd Position and the Best Team Award at the MES MarampallyHackathon
- Vishal V Nair and team has participated the grand finale of "Dreamvestor 2.0 state level ideathon organized by ASAP Kerala.

### Merit Evening Awards

1. M R Seethalekshmisecured 9.42 CGPA in End Semester Examinationand selected as the best outgoing student of academic year 2023 -25 considering curricular & extra-curricular activities

2. DevanandaRajan(9.87 CGPA), topper in S1&S2 MCA Examination January 2025.

3. Amal Ashok(9.3 CGPA), topper in S4 MCA Examination, June 2025.

## COMPUTER SCIENCE AND ENGINEERING

### MoUs Signed

The department signed MOU with PMS College of Dental Science and Research on 31st January 2025

The department signed MOU with CDIT, Trivandrum on 25th September 2025

### Programmes Organized

1. Two vacation courses (Python and C Programming) with C-DIT certification were offered as part of Vacation Utsav 2025.

2. The department conducted two FDPs:

a."Pathway to Research – From

Ideas to Impact" 5 May – 10 May 2025. Coordinated by Dr. Shameem Ansar and Dr. Reshma Sheik b."AI Research Tools – A Multidisciplinary Perspective" 23 June – 28 June 2025. Cordinated by Dr.Aneesh G Nath & Prof. Rehannara Beegum T

3. IEI CSE TKMCE Chapter received the Best Performing Student Chapter Award under IEI Kollam Local Centre for the year 2024–2025

4. The department, in association with Elxtron Lab 30 hour add-on course on "AI-Powered Robotics & Drone Design : Build,Code & Fly" commenced from 8 Aug 2025

5. An Orientation Session for Mini Project for 6th Semester BTech students by IITM Pravarthak on 01-01-2025

6. A technical talk on "AI is reshaping the future" by Fathima Nooha (Aluminus) on 04-03-2025.

7. Workshop on "Langchain" conducted by Mr. Sooraj T(Product Engineer, UST) on 16-3-2025.

8. 3D Summer School 2025 by Centre for Visual Information Technology by IIIT Hyderabad from 22-6-2025 to 28-6-2025

9. Getting started with Romio Robot by Prem Sasidharan (Sr. Software Engineer, ZooX San Francisco) on 26-7-2025.

10. Re-imaging code: AI Tools for Tomorrow by Anna Pramod (AI Engineer, UST) on 14-7-2025.

11. Code the Backend: RESTful Services with Node.js and Express.js by Praveen (Oracle) in association with FOSS Cell on 09-08-2025.

12. IEI CSE TKMCE organised a "Technical Talk on AR/VR and its applications using AI" on 9th September 2025. The session was delivered by Dr. Aasish Bhanu, Ph.D. Founder – Divination Reality Labs LLC Human Factors Researcher, Clemson University, USA.

13. IEI CSE TKMCE organized a Technical Talk on "Frontiers of Geospatial Technology" on 22nd October 2025 . The session was delivered by Dr. Suresh Francis,Scientist at Kerala State Remote sensing and Enviorment center.

14. IEEE CS SBC TKMCE, in association with IEEE SBC TKMCE, conducted a one-day workshop titled "Launch to Cloud: Unlocking the Future of Computing" on 18th October 2025.

## Faculty Publications and Patents

1. S. Kharat, S. S. Udmale, A. G. Nath, G. P. Bhole, and S. G. Bhirud, "Classification of impacted teeth from panoramic radiography using deep learning," in Proc. Int. Conf. Distributed Computing and Intelligent Technology (ICDCIT), Cham, Switzerland: Springer Nature, Dec. 2024, pp. 257–270.

2. A. A. Khan, Shaji Muhammed, A. M., D. Sujith, A. G. Nath, and S. S. Udmale, "InVideo search: Scene description clustering and integrating image and audio captioning for enhanced video search," in Proc. Int. Conf. Distributed Computing and Intelligent Technology (ICDCIT), Cham, Switzerland: Springer Nature, Dec. 2024, pp. 195–208.

3. V. Baiju, A. A. Sha, A. B. Chai, N. F. F. Alhialy, A. G. Nath, and A. Sudheer, "Performance assessment of a solar hybrid potable atmospheric water generator using vapour adsorption–thermo electric cooling system," Energy Conversion and Management, vol. 330, Art. no. 119665, 2025.

4. J. Raju, A. Shyna, A. John, and M. J. Pillai, "Transforming medical imaging with IVIM MR imaging: A comprehensive review of advances and challenges in perfusion and diffusion analysis," Applied Magnetic Resonance, pp. 1–41, 2025.

5. A. Shyna, B. Athira, A. John, U. Amma C., M. J. Pillai, G. Rajan, and P. Rajaram, "A deep learning architecture for arterial spin labeling MRI to improve SNR with short acquisition time," Signal, Image and Video Processing, vol. 19, no. 15, p. 1278, 2025.

6. S. Sajna, M. J. Pillai, and G. Rajan, "Enhancing healthcare consensus mechanism—A reputation integrated variant of PBFT (BR-PBFT)," PLOS ONE, vol. 20, no. 11, Art. no. e0336039, 2025.

7. S. Remya, M. J. Pillai, B. Niranjan, P. A. Kumar, K. M. Shaju, K. D. Raj, et al., "eBPF-based runtime detection of semantic DDoS attacks in Linux containers," IEEE Access, 2025.

8. S. Remya, M. J. Pillai, P. A. Jacob, S. Suresh, and S. S. D. Selvi, "Security analysis and performance evaluation of certificateless proxy re-encryption for blockchain applications," IEEE Access, 2025.

9. B. S. Aparna, S. Remya, M. J. Pillai, S. R. Subbareddy, and Y. Y. Cho, "ALBERT-BiLSTM cross-atten-

tion network with progressive knowledge distillation for multi-domain SMS spam classification," Results in Engineering, Art. no. 106727, 2025.

10. N. E. Varghese, A. John, U. D. A. C., and M. J. Pillai, "Transformer-augmented lightweight U-Net (UAAC-Net) for accurate MRI brain tumor segmentation," Neurological Research, pp. 1–16, 2025.

11. S. Remya, M. J. Pillai, B. S. Aparna, S. R. Subbareddy, and Y. Y. Cho, "BGL-PhishNet: Phishing website detection using hybrid model—BERT, GNN, and LightGBM," IEEE Access, vol. 13, pp. 47552–47569, 2025.

12. R. Ravi and M. J. Pillai, "Efficient multiverse electro search optimization for multi-cloud task scheduling and resource allocation," Multimedia Tools and Applications, vol. 84, no. 21, pp. 24351–24376, 2025.

13. S. Remya, M. J. Pillai, A. Sha, G. Rajan, S. Ramasubbareddy, and Y. Cho, "Saltus—'A sudden transition' empowered by federated learning for efficient big data handling in multimedia sensor networks," IEEE Access, 2024.

14. S. Remya, M. J. Pillai, K. K. Nair, S. R. Subbareddy, and Y. Y. Cho, "An effective detection approach for phishing URL using ResMLP," IEEE Access, vol. 12, pp. 79367–79382, 2024.

15. S. Remya, M. J. Pillai, C. Arjun, S. Ramasubbareddy, and Y. Cho, "Enhancing security in LLNs using a hybrid trust-based intrusion detection system for RPL," IEEE Access, vol. 12, pp. 58836–58850, 2024.

16. D. K. Daniel, K. A. Viji, and M. J. Pillai, "A space aware temporal convolutional neural networks approach for enhanced diagnosis of multiple sclerosis brain atrophy using MR images," in Proc. 2025 Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA), IEEE, Jul. 2025, pp. 1–7

17. S. Sajna and M. J. Pillai, "Analysis on the consensus algorithms with reputation-based incentives in the healthcare blockchain networks," in Proc. 2024 IEEE Int. Conf. Signal Processing, Informatics, Communication and Energy Systems (SPICES), IEEE, Sep. 2024, pp. 1–8.

18. N. Jose, A. Ansar, and V. Reddy, "Finger vein-based biometric key generation with post-quantum encryption and optimized magnetized Hopfield global neural network," International Journal of Applied Mathematics, vol. 38, no. 1s, 2025.

19. A. P. N. K., J. R. Rithish, A. G. Nath, S. K. Singh, and R. K. Singh, "An interpretable electric vehicles battery state of charge estimation using MHDTCN-GRU," IEEE Trans. Vehicular Technology, 2024

20. N. A. Padmanabhan, A. K. Pratihasta, N. Tanwar, R. K. Singh, R. K. Misra, and S. K. Singh, "Interpretable Hybrid CDTCN-GRU Model for Supercapacitor Life Prediction," IEEE Sensors Journal, 2025.

21. A. Padmanabhan, S. V. Mate, R. K. Singh, and S. K. Singh, "Explainable MFDWA-GRU Model for Battery State of Health Estimation," IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2025.

22. A. Kumar, N. A. Padmanabhan, S. K. Singh, R. K. Singh, and V. N. Lal, "Hybrid AI Model for Enhanced Battery RUL Prediction in Electrolytic Capacitor-Less Solar-Battery Integrated Power Processor," in 2025 IEEE Energy Conversion Congress & Exposition Asia (ECCE-Asia), May 2025, pp. 1–6.

23. A. P. N. K., A. K. Pratihasta, S. K. Singh, R. K. Singh, and R. K. Misra, "Explainable Hybrid Deep Learning Model for State of Charge Estimation in Real-World Driving Cycles," in 2025 IEEE Energy Conversion Congress and Exposition (ECCE), 2025, pp. 1–5.

24. A. Shyna, J. Raju, and R. M. George, "BrailleSegNet: A novel methodology for braille dataset generation and character segmentation," Displays, 2025, Art. no. 103145.

25. A. Shyna A contributed a paper titled on "BERT based Text classification pipeline for categorizing Metal Health statements" in the 4th World conference on Information system for Business Management, Bangkok, Thailand, and it is selected for publication in the ISBM conference (Springer).

26. A. Shyna, Jini Raju, Nandana Vikraman, Irish Ann Rajan, Nino Jagadish, Anliya Joy A presented a paper titled on "Residual Encoder-Decoder Network for CBF and ATT estimation from simulated multi -PLD ASL MRI to reduce Acquisition time" on International Conference on Artificial Intelligence for Healthcare(AI-HC), Dec 10-12, at NIT Calicut.

27. Reshma Sheik, S. A. Reji, A. Sharon, M. A. Rai, and S. J. Nirmala, "Advancing prompt-based language models in the legal domain: adaptive strategies and research challenges," Artificial Intelligence and Law, pp. 1–43, 2025.

28. Reshma Sheik, K. Nair, S. M. Krishna, and S. J. Nirmala, "Adaptive data augmentation for salient sentence identification in Indian judicial decisions," Evolving Systems, vol. 16, no. 2, p. 40, 2025.

29. Reshma Sheik, S. Ganesh, Subramanyam, J. Thomas, and S. J. Nirmala, "A novel end-to-end system for efficient generation of true/false educational assessments using deep learning models," Journal of Ambient Intelligence and Humanized Computing, vol. 16, no. 8, pp. 949–959, 2025.

30. Reshma Sheik presented a poster on "Optimizing Open-Source Models with Post-Processing for News Article Summarization" at the Third International Conference on FOSS Approaches Towards Computational Intelligence and Language Technology, organised by the International Centre for Free and Open Source Solutions (ICFOSS), in association with BHASHINI, held from 23rd to 25th January 2025.

31. Reshma Sheik presented a paper on "AI Models for Legal Text Processing: Tackling Legal Language Complexity with Deep Learning," at the 10th Annual Women's Meet – AWM 2025 (Scientific Conference ISBN: 978-81-969897-9-8), organized by the Centre for Women Development of Venus International Foundation. March 2025

32. A. Mohite, Reshma Sheik, and S. J. Nirmala, "Improving Legal Text Classification through Data Augmentation Using Deep Learning Models," in Recent Advances in Computing Sciences, CRC Press, 2025, pp. 136–139.

33. Reshma Sheik, Noah John, Fathima Firose A, and Jonathan Paul presented a paper titled " Hierarchical Long-Document Summarization using LED for Legal Judgments" was accepted in the JUST-NLP 2025 Workshop on NLP for Empowering Justice, co-located with IJCNLP-AACL 2025 conference at IIT Bombay on 20-24th December 2025.

34. Reshma Sheik. Devanarayanan K, Fayas S Mohamad and Dheeraj V Mohan presented a paper titled "A Hybrid Quantum-Classical Fusion for Deep Semantic Paraphrase Detection" was accepted in the QNLP 2025 Workshop on Quantum Computing co-located with IJCNLP-AACL 2025 conference at IIT Bombay on 20-24th December 2025.

35. S. M. Wilson and K. S. Kannan, "Quantitative EEG decomposition and silver howl optimization for multi-stage autism spectrum disorder classification," Optical Memory and Neural Networks, vol. 34, no. 4, pp. 528–545, 2025.

## Faculty and Staff Achievements

1. Eight faculties served as resource persons at various national workshops and FDPs.

2. Dr. Aneesh G. Nath received a postdoctoral fellowship from TKMCE under the guidance of Dr. Baiju V in September 2025.

3. Dr. Mohammed Siyad B received a Ph.D. from NIT Trichy in February 2025.

4. Dr. Anantha Padmanabhan N. K received a Ph.D. from IIT (BHU) in August 2025.

5. Dr. Anantha Padmanabhan N K delivered a technical talk at IIT Roorkee on 25th August 2025. On the Topic: "Interpretable AI for Smart Grid"

6. Dr. Reshma Sheik delivered technical lectures at the ANRF-sponsored 5-day programme on "Artificial Intelligence in Legal Domain" at NIT Trichy, organized by Department of Computer Science and Engineering and the Department of Computer Applications. Spoke on "Technical Writing and Research Tools" and "Generative AI in the Legal Domain" on 3rd and 4th July, 2025

7. Dr. Reshma Sheik received the "Young Women Researcher Award" in Intelligent Systems (Natural Language Processing) at the Tenth International Women's Awards VIWA 2025, held in March 2025.

8. Dr.Thushara A successfully completed the NPTEL certification on Quantum Algorithms and Cryptography.

9. Dr. Shyna A successfully completed the NPTEL certification on "OBE and Accreditation" (Elite+Silver certification") and Introduction to Large Language Models (Elite Certification).

10. Dr. Jini Raju completed the NPTEL certification on "OBE and Accreditation" with Elite+ Gold certification

11. Prof. Reena Mary George, and Prof. Nisa A. K. successfully completed the NPTEL certification on OBE and Accreditation with Elite +Silver certification.

12. Prof. Bismi M. and earned NPTEL certification in Software Engineering.

13. Prof.Praseetha R. earned NPTEL certification in Deep Learning

## Student Achievements

1. 77 students from the final year and pre-final year qualified for GATE 2025.

2. Seven students got an Internship at IITM Pravartak Technologies at IIT Madras Research Park

3. Sadhav S, and Sreeresh were placed at JUSPAY with 21 LPA.

4. Ms. Shana Sherin M, B.Tech 2024 graduate, successfully published a Q2 SCIE-indexed journal paper (Impact Factor: 3.4) in December 2025 as part of her final-year B.Tech project under the guidance of Dr. Shyna A.

5. Team Juris_Summ from the Fifth Semester, Dept. of Computer Science & Engineering mentored by Dr Reshma Sheik secured *2nd Place* in the Legal Summarization Shared Task (L-SUMM) at JUST-NLP Workshop co-located with the premier international conference IJCNLP-AACL 2025, at IIT Bombay. The student members are Noah John Puthayathu, Jonathan Paul A, and Firose A. Another team of Seventh Semester students from CSE under her mentorship secured 6th position in the Legal Language Translation competition.

6. Vani M of M. Tech 2023-2025 batch presented a paper titled SECURE DATA TRANSMISSION USING COVERLESS VIDEO STEGANOGRAPHY BASED ON BIT- PLANE SEGMENTATION" on 1st International Conference on Smart and Intelligent Systems (SISCON)(SCOPUS Indexed) at Marian College of Engineering, Trivandrum.

7. Rasha Ameena, Nayana S Babu, Sneha Ann Mathew, Meghanath R(2022-2026 B. Tech) presented a paper titled "Rotation-Specific Preprocessing for Real-Time English Braille Character Recognition" at the International Conference on Artificial Intelligence for Healthcare(AIHC), Dec 10-12, at NIT Calicut, as part of their project phase 1.

8. Three conference publications were produced by the BTech students in the calendar year.

9. Devakrishna and Sayooj completed an Internship at the CERT-K Project of Kerala State IT Mission in June 2025.

10. A group of third-semester students had the opportunity to visit IIT Madras, the IITM Innovation Centre, and the IITM Research Park on 29–30 September as part of their Industrial Visit.

11. Farhan Byju completed 1 Million Prompters by DUBAI FUTURE FOUNDATION in Jul 2025.

12. Sona F Shukoor was the HPAIR delegate in the Harvard Project for Asian and International Relations Asian Conference.

## Alumni Achievements

• Akshay V (2020-2024 Batch) and Rahul Jose (2019-2023 Batch) qualified for Gate with AIR 45 and AIR 58 the rank respectively.

• Dija S, an alumnus of TKM College of Engineering (Computer Science & Engg. 1994-98 Batch), has received The Award of Excellence for Leadership in Digital Forensics Research from the Future Crime Research Foundation (FCRF)

## Merit Evening Awards

1. Dr. D Chithraprasad Cash Prize (The topper in the subject "Design and Analysis of Algorithms" from 2021-2025 batch - JENO BENNY

2. Prof. S Rajendran Cash Prize (The CSE department topper upto 7th semester) - VRINDHA VINOD

3. Alumni Proficiency award (Certificate of Proficiency considering curricular and co-curricular ) - AKHILA C, JASEEM P

4. Merit Certificate (Who secures maximum marks in B.Tech) -

HELAN MARIYAM AIPE

MUHAMMED RAMEES (M.Tech)

5. Merit Certificate (Who secures maximum marks in M.Tech) -

NANDHANA LEKSHMI S

FATHIMATH RIYA AFREEN M. A

SHIKHA RAJEEV

SHAHINA SHANAVAS,(S3S4)

VRINDHA VINOD

ANAKHA R A(S5S6)

MYDHILY N (S1S2)

ASNA S B

6. Prizes introduced by Alumni & PTA (Semester Toppers) - ASNA S B

7. Prof. P.A. Abraham Cash prize 3000 Best Project Award Enhancement of Mobility in RPL-Routing Protocol for Low Power Lossy networks-

ASWIN RAJ P V

KRIPA ANIL

SIYA SREEKUMAR PILLAI

SYAMA AJITH

Sports :

FINASH T K – HANDBALL

Faculty Award

Dr. Aneesh G. Nath received the TKMCE Faculty Excellence Award on September 19, 2025.

Dr. Manu J. Pillai received the TKMCE Faculty Excellence Award on September 19, 2025.

Dr. Shameem Anzar A received the TKMCE Faculty Excellence Award on September 19, 2025.1

## ARCHITECTURE

### Retired Faculty

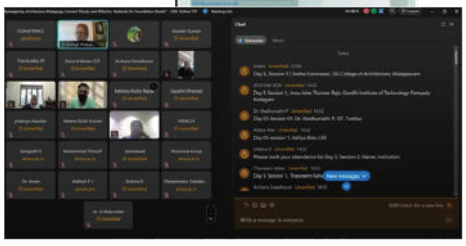
Prof. Nizar S A

### Programmes Organised

1. A team of Seventeen faculty members from the Department of Architecture, TKM College of Engineering, Kerala, India, undertook an academic visit to Phuket, Thailand, from 4th to 10th November 2025. The study tour was organized with the objective of exploring the architectural heritage, urban morphology, and contemporary spatial practices of the region. The group focused particularly on the Old Phuket Town, a culturally rich urban district known for its distinctive Sino-Portuguese architecture, vibrant streetscapes, restored shophouses, and historically layered urban fabric. The visit enabled the faculty to closely observe the evolution of the town's urban character, its heritage conservation efforts, and the integration of traditional elements into modern urban life. In addition to the heritage precinct, the team also visited prominent contemporary urban spaces and landmark developments including Porto de Phuket and Phuket City Gate. These visits offered valuable insights into modern architectural language, contextual design strategies, spatial planning principles, and the fusion of commercial, public, and recreational functions within evolving urban environments.The academic exposure gained through this visit is expected to significantly enrich the faculty's pedagogical approaches and help guide the next generation of architects towards context-responsive and culturally sensitive design thinking.

2. Aarusho'25 – World Town Planning Week Celebrations Dates: 13–15 November 2025 As part of World Town Planning Week 2025, the department is organizing Aarusho'25 – Dawn of a New Urban Vision under the theme "With Planning, We Can." The event highlights a panel discussion on:"Cities in Transition: Synergizing Sectors for Sustainable Urban Futures"with the central focus: "Urban Realities and Future Pathways: Challenges, Collaborations, and Change."The program promotes dialogue on integrated urban solutions and multisectoral collaboration for resilient cities.

3. Teacher Training Program (TTP) – COA-TRC Pune & TKMCE Title: Reimagining Architecture Pedagogy: Current Trends and Effective Methods for Foundation Studio Dates: 24–28 November 2025. A 5-day online national training program aimed at strengthening architectural pedagogy. Sessions explored evolving foundation studio methods, creative teaching practices, and effective evaluation frameworks.



4. Talk Series: "Integrating Conservation and Development – The HUL Perspective" Dates: 27–28 October 2025 A two-day hybrid talk series featuring experts discussing UNESCO's HUL framework, heritage-sensitive urban development, governance models, digital documentation, and community engagement in conservation.

5. Clay Modelling Workshop Date: 12 September 2025. On September 12, 2025, the incoming B.Arch batch stepped into the world of three-dimensional design with a hands-on Clay Modelling Workshop. Part of the Student Induction Programme, the session was facilitated by Dr. Sambath R. D., who guided students through the tactile fundamentals of form, volume, and texture. Learning techniques such as pinching, coiling, and slab forming, the students enthusiastically translated abstract concepts into physical models. The workshop served as an excellent primer for developing spatial imagination and creative expression.

6. S1 students building material industry visit Date: 11 June 2025 S1 B.Arch students recently explo red the world of eco-friendly construction at Buildup Building Materials Industry. The visit offered a behind-the-scenes look at the production of Compressed Earthen Blocks (CEB) and earthen tiles. Students walked through the entire manufacturing process, gaining valuable knowledge on how these materials contribute to sustainable, thermally comfortable, and cost-effective building practices.

7. Date: 24 September 2025 To support the Semester 9 studio project on mobility hub redesign, Architect Arul Jyothi Harry delivered an expert talk (Online) titled "Reimagining Vyttila Mobility Hub for Future" on September 24, 2025. The session provided students with professional insights into designing sustainable, resilient mobility infrastructure and integrating data-driven innovation.

## Faculty Publications and Patents

1. N. Hasan, S. K. Nirmale, L. Deepa, and A. R. Pinjari, "Modelling metro rail ridership at the station- and route-level: an application to analysis of metro ridership in Bengaluru, India," Transportation Research Part a Policy and Practice, vol. 200, p. 104638, Sep. 2025, doi: 10.1016/j.tra.2025.104638.

2. K. Sangeeth and U. K. Roy, "Methodology for evaluating sidewalk based on continuous pedestrian movement on the sidewalk segment – A case study of Kochi city," Transportation Research Interdisciplinary Perspectives, vol. 31, p. 101393, Mar. 2025, doi: 10.1016/j.trip.2025.101393.

3. R. Kaur, S. Mitra, and S. Rd, "Phulkari Art, Folksong, and the Expression of Indignation: An interdisciplinary review with Indian Psychological Perspectives," Culture & Psychology, Dec. 2025, doi: 10.1177/1354067x251411805.

4. A. Verma, R. D. Sambath, and M. K. Asthana, "Music genre preference of non-musicians," in Design science and innovation, 2025, pp. 211–221. doi: 10.1007/978-981-96-4383-7_21.

5. R. V. Shynu, A. Suseelan, and R. D. Sambath, "Environmental Perception," in Encyclopedia of Human Geography, 2025, pp. 1–10. doi: 10.1007/978-3-031-25900-5_124-1.

6. N. Nazer, B. P, and C. K, "A GIS-based methodology to identify priority areas for land use regulations - Case study of Kozhikode," Ecological Modelling, vol. 512, p. 111402, Nov. 2025, doi: 10.1016/j.ecolmodel.2025.111402.

## Faculty and Staff Achievements

- Prof. Gadhi M

A residential building designed by Prof. Gadhi M. named "Gazebo" was shortlisted as one of the best three Residences in the Indian Institute of Architects 32nd National Awards for Excellence in Architecture

- Dr. Annie John

Contributed as an expert member to KILA and the Kerala Urban Policy Commission on key urban development studies.

- Dr. Sambath R D

Principal investigator of the research proposal "Resonant Spaces: Unveiling the Emotional and Restorative Dynamics of Indian Architecture," which has been selected for the COA संशोधन (Sanshodhan)' Research Grant 2025 -26 under the Outcome-Oriented Research Program for Senior Teachers/Architects (OORP).

### Student Achievements

- Sradha Premjith, Apoorva Ramesh, Dheeshna Dileep, and Sreya R. M. from the 2021-2025 batch have successfully secured ranks within the top 10 in the University Examination.
- Malavika Biley, Anju Ayyappan and Maanas Manoj of S9 got shortlisted among the top 50 entries in the Volume Zero International Design competition.

### Alumni Achievements

1. Mariya Joy has been honored with both the Merit Certificate and the Alumni Proficiency Award for her outstanding all-around performance. As the batch topper with a CGPA of 9.27, she secured the KTU First Rank. Her excellence extends beyond academics into professional achievements, including being shortlisted in TINY HOUSE 2022 VOLUME ZERO and securing First Runner-up at Envisage 2022.

2. Ar. Aaron Bigily Panavelil: Successfully elected as a Pathanamthitta District Panchayath Member, marking a significant achievement in public governance and community leadership.

3. Idea Design, led by TKMCE alumni Ar. Chitra Biley and Ar. Biley Menon, was the Conceptual Architecture winner at the FOAID National Awards 2025 for their project, The SIRCLE, located in Sirumalai, Tamil Nadu.

4. Ar. Babin Babu Kunnummal has been awarded the prestigious RIBA South East London MArch First Prize 2025 for his Part 2 Final Year Design Project.

5. Ar. Susan Vinu: Founder of On the Soil Architects, she was recognized as one of the Top 7 Finalists at the WADE Asia Awards 2025 in the Landscape Public Projects category, presenting her work at the event held at Yashbhoomi, Delhi.

6. Ar. Tara E. Pandala: Principal at the Centre for Sustainable Built and Natural Environment (C.S.B.N.E), Kochi, she won the prestigious Most Sustainable Design Award at the 7th WADE ArchiDesign National Competition 2024, held at Yashobhoomi, New Delhi.

### Merit Evening Awards

Batch 2023-2028 (S1 & S2)

- Amina Jihan K. I. (CGPA: 8.78)
- Gopika Sunil (CGPA: 8.75)

Awarded for achieving the highest CGPA scores in the first year.

Batch 2022-2027 (S3 & S4)

- Abhay Krishnan (CGPA: 8.84) - Recognized for the highest academic performance from Semester 1 to date.
- Maushami Sajid (CGPA: 8.82)

Batch 2021-2026 (S5 & S6)

- Elsa Selin Daniel (CGPA: 8.65)
- Malavika E. Biley (CGPA: 8.63)

Awarded for best academic performance in S5 & S6, highlighting excellence in academics and sports.

Batch 2020-2025 (S7 & S8)

- Abishek Georgie Shibu (CGPA: 9.4)
- Aliya Aslam (CGPA: 9.04) - Recognized for the highest combined SGPA of S6 and S7.

## DEPARTMENT OF PHYSICAL EDUCATION

### ACTIVITIES AND ACHIEVEMENTS OF DEPARTMENT OF PHYSICAL EDUCATION 2025-2026

This year has been a landmark season for TKM College of Engineering in the sporting arena. Demonstrating exceptional grit and teamwork, our students participated in a wide array of university-level competitions, consistently outperforming the competition. These efforts culminated in a significant haul of trophies, reflecting the "excellent performance" and dedication of our students. From the court to the field, the TKMCE spirit was on full display, cementing our

reputation as a powerhouse in both academics and sports.

TKMCE football team men champions in APJ Abdul kalam technological university zone football tournament 2025-26

TKMCE basketball team men champions in APJ Abdul kalam technological university zone basketball tournament 2025-26

TKMCE basketball team women champions in APJ Abdul kalam technological university zone basketball tournament 2025-26

TKMCE shuttle badminton team men champions in APJ Abdul kalam technological university zone shuttle badminton tournament 2025-26

TKMCE shuttle badminton team women champions in APJ Abdul kalam technological university zone shuttle badminton tournament 2025-26

TKMCE chess team women champions in APJ Abdul kalam technological university zone chess tournament 2025-26

TKMCE chess team men champions in APJ Abdul kalam technological university zone chess tournament 2025-26

TKMCE volleyball team women champions in APJ Abdul kalam technological university zone volleyball tournament 2025-26

TKMCE cricket team men champions in APJ Abdul kalam technological university zone cricket tournament 2025-26

TKMCE volleyball team men runner up in APJ Abdul kalam technological university zone volleyball tournament 2025-26

TKMCE kabaddi team men runner up in APJ Abdul kalam technological university zone kabaddi tournament 2025-26

TKMCE Table tennis team men and women champions in APJ Abdul kalam technological university zone table tennis tournament 2025-26

TKMCE kabaddi team women runner up in APJ Abdul kalam technological university zone kabaddi tournament 2025-26

TKMCE tennis team men runner up in APJ Abdul kalam technological university all Kerala inter zone tennis tournament 2025-26.

TKMCE tennis team women third place in APJ Abdul kalam technological university all Kerala inter zone tennis tournament 2025-26.

TKMCE football team women runner up in APJ Abdul kalam technological university all Kerala inter zone football tournament 2025-26.

### Tournaments conducted at TKMCE

- APJ Abdul kalam technological university zone cricket tournament on 10th to 13th December 2025.
- APJ Abdul kalam technological university inter zone tennis men and women tournament on 12th and 13th December 2025.
- APJ Abdul kalam technological university inter zone football women tournament on 20 and 21st December 2025.
- APJ Abdul kalam technological university zone volleyball tournament on 19th October 2025.
- APJ Abdul kalam technological university zone football men tournament on 4th to 12th October 2025.
- APJ Abdul kalam technological university zone basketball men and women tournament on 24th and 25th October 2025.
- APJ Abdul kalam technological university zone chess men and women tournament on 12 and 13 December 2025.
- APJ Abdul kalam technological university inter zone football women tournament on 20 and 21 December 2025.

## CENTRE FOR AI

### MoUs Signed

The department has signed a Memorandum of Understanding (MoU) with Nest Digital, Trivandrum, marking a significant step in connecting advanced AI education with real-world industry applications.The collaboration is focused on offering internship opportunities for M.Tech Artificial Intelligence students from the Centre for AI, enabling them to work on real-time industry projects, receive mentorship from professionals, and develop skills aligned with current market needs.

MoU Signing – TKMCE & Nest Digital, Trivandrum

### Faculty Publications & Patents


1. C. Jacob, "Dynamic consensus control of linear multi-agent systems: Unmanned ground vehicle platooning," Measurement and Control, Q3 journal, doi: 10.1177/00202940251320330.

2. C. Jacob, "Three-Dimensional Network With Squeeze and Excitation for Accurate Multi-Region Brain Tumor Segmentation," International Journal of Imaging Systems and Technology, vol. 35, no. 2, Article e70057, Q2 journal, doi: 10.1002/ima.70057.

3. C. Jacob, "Pothole Detection and Assessment on Highways Using Enhanced YOLO Algorithm With Attention Mechanisms," Advances in Civil Engineering, vol. 2025, no. 1, Article ID 7911336, Q2 journal, doi: 10.1155/adce/7911336.

4. S. Sundar, "Pothole Detection and Assessment on Highways Using Enhanced YOLO Algorithm With Attention Mechanisms," Advances in Civil Engineering, vol. 2025, no. 1, Article ID 7911336, Q2 journal, doi: 10.1155/adce/7911336..

5. C. Jacob, R. Resmi, D. Vinod, and V. Mahalekshmi, "STACKPath: A Stacked Classifier-Based ML Pathway for Histopathological Cancer Detection," in Proc. 2025 8th Int. Conf. Circuit, Power & Computing Technologies (ICCPCT), Aug. 2025, IEEE, doi: 10.1109/ICCPCT65132.2025.11176769.

6. R. Shajahan, "Alzheimer's Disease Prediction and Classification Using Deep Learning Techniques," in Proc. Int. Conf. Data Science and Communication (ICTDsC-2024), Siliguri Institute of Technology, Siliguri, India, Nov. 21–22, 2024, Springer Nature.

7. C. Jacob, "Context-Driven Chatbot Development: Leveraging Zephyr-7B with Retrieval-Augmented Generation (RAG) for Improved Response Accuracy," in Proc. 2025 Emerging Technologies for Intelligent Systems (ETIS), Trivandrum, India,

Feb. 7–9, 2025, IEEE, doi: 10.1109/ETIS64005.2025.10960935..

8. S. Sundar, "Impacts of Image Preprocessing Techniques on Lung Cancer Classification," in Proc. 11th Int. Conf. Advances in Computing and Communications (ICACC 2024), Nov. 6–8, 2024, IEEE, doi: 10.1109/ICACC63692.2024.10845295.

9. C. Jacob, "Detecting AI-Generated Social Media Comments Using BERT-Extracted Semantic Style Features," in Proc. 2025 Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA), July 18–19, 2025, IEEE, doi: 10.1109 /ACCTHPA65749.2025.11168496..

10. C. Jacob, "Deep Learning Transformers for Sentiment Classification: A Performance Evaluation," in Proc. 2025 6th Int. Conf. Control, Communication and Computing (ICCC), Thiruvananthapuram, India, May 23–25, 2025, IEEE, doi: 10.1109 /ICCC64910.2025.11077210.

**Faculty and Staff Achievements**

1. Dr Sumod Sundar has delivered a technical talk in AICTE online FDP-Next -GenAI Innnovations in Machine Learning ,Deep Learning and Generative Models on Jan 13th,2025 at St. Joseph College of Engineering and Technology ,Palai.

2. Dr Sumod Sundar has delivered a technical talk in Data Analytics Techniques In Business on Jan 24th,2025 at TKM Institute of Management

3. Dr Sumod Sundar has delivered a technical talk in Two day International conference on Education 6.0:A Paradigm Shift in Ed-Tech and maker Knowledge on Jan 24th,2025 at Buddha College of Teacher Education Muthukulam.

4. Dr. Sumod Sundar delivered an inaugural address for "Excellency 2025 – The Experience Division Inauguration" on February 2, 2025, organized by WEFI Kollam Division at the Student Centre, Kundara.

5. Dr. Sumod Sundar also delivered a technical talk as a resource person in the AICTE Online Faculty Development Programme (FDP) on "Strategic Approaches and Emerging Trends in Data Science" on February 13, 2025, organized by the Department of Computer Science and Engineering, FISAT.

6. Dr. Chinnu Jacob delivered an expert talk at the International Symposium on "Living with Artificial Intelligence" on March 4, 2025, organized by St. Berchmans College, Changanassery.

7. Dr. Sumod Sundar delivered a keynote address at the National Conference on "Edge AI: Optimising Machine Learning for Real-Time Processing and IoT Applications" on April 30, 2025, organized by the Federal Institute of Science and Technology.

8. Dr. Chinnu Jacob served as a Resource Person for the five-day Faculty Development Program (FDP) on "Artificial Intelligence and Data Science: A Hands-on Orientation" on May 28, 2025, organized by the Department of Computer Science and Engineering, MES Institute of Technology and Management, Chathannoor.

9. Dr. Sumod Sundar served as a Resource Person for the five-day Faculty Development Program (FDP) on "Artificial Intelligence and Data Science: A Hands-on Orientation" on May 29 and 30, 2025, organized by the Department of Computer Science and Engineering, MES Institute of Technology and Management, Chathannoor.

10. Dr. Chinnu Jacob served as a Resource Person for the Faculty Development Program on "Empowering Educators with AI: A Deep Dive into Machine Learning and Data Science" on June 16, 2025, organized by the College of Engineering Chengannur.

11. Dr. Chinnu Jacob served as a Resource Person for the Faculty Development Program on "Introduction to Machine Learning and Data Science" on June 26, 2025, organized by Bishop Jerome Institute.

12. Dr. Chinnu Jacob also served as a Resource Person for the six-day online Faculty Development Program on "AI Research Tools: A Multidisciplinary Approach" on June 28, 2025, organized by TKM College of Engineering, Kollam.

13. Dr. Chinnu Jacob attended a workshop on "Quantum Computing in Hydroclimatology" on July 2, 2025, organized by the Department of Civil Engineering in association with the IQAC, TKM College of Engineering, Kollam.

14. Dr. Chinnu Jacob served as a Resource Person for the CBSE STEM District-Level Deliberation (Version 2) on the theme "Use of AI in Classrooms" on July 5, 2025, organized by St. Mary's E.M. Public School, Uliyakovil, Kollam.

15. Dr. Chinnu Jacob also served as a Resource Person for the induction program on "Living with AI" on July 14, 2025, organized by the Department of Computer Science, St. Berchmans College, Changanassery.

16. Dr. Chinnu Jacob attended the five-day Industry Collaborative Faculty Development Program on "Agentic AI: Empowering Educators and Learners," jointly organized by TCS and UST, and hosted by

Mohandas College of Engineering and Technology. The FDP was conducted in online mode from August 12 to August 16, 2025.

17. Dr. Chinnu Jacob delivered a technical talk on "Integrating AI with STEM for the Future" on August 2, 2025, at M.G.M. Model School, Ayiroor, Varkala.

18. Sree S. Bhagya attended an online training program on "R Programming" conducted from August 18 to August 23, 2025, with a total duration of six days. The program was organized by CSSR & SRRM Degree and PG College and was delivered in online mode.

19. Sree S. Bhagya also attended a training program on "GPU Programming and Distributed Deep Learning with PyTorch: Scaling and Optimization," conducted during August 7–9, 2025 and August 21–23, 2025, with a total duration of six days. The program was organized by the Federal Institute of Science and Technology (FISAT) and was conducted in a blended mode, comprising three days of offline sessions and three days of online sessions.

20. Dr. Chinnu Jacob delivered a technical talk titled "Empowering Educators: Integrating AI with STEM for Future-Ready Classrooms" on August 16, 2025, at TKM Centenary Public School.

21. Dr. Chinnu Jacob delivered a technical talk titled "Data Structures Demystified: Deep Diving into C Programming and Data Structures" on September 11, 2025, at Providence College of Engineering.

22. Dr. Chinnu Jacob also delivered a technical talk on "AI and Cybersecurity" on September 14 and 15, 2025, organized by the Kerala State Union (STU Committee) at the Animation Centre, Kottiyam, Kollam.

23. Sree S. Bhagya attended a five-day online Faculty Development Program on "NextGen AI with Reinforcement Learning Techniques," conducted from October 6 to October 10. The program was organized by the Department of Electrical and Electronics Engineering, TKM College of Engineering, and was delivered in online mode.

24. Dr. Chinnu Jacob served as a Resource Person for a session titled "AI-Integrated Pedagogy for NEP-Based Classrooms" on October 17, 2025, organized at St. Thomas Public School.

25. Dr. Chinnu Jacob served as a Resource Person for a session titled "Expanding Horizons: AI in Technology Applications" on November 5, 2025, organized by the Department of Electronics and Communication Engineering, Bishop Jerome Institute, Kollam.

26. Dr. Chinnu Jacob served as a Resource Person for the Five-Day Faculty Development Programme on "AI in Action: Empowering Faculty with Next-Gen Tools for Teaching and Research" on November 20, 2025. The programme was organized by the Department of Computer Science and Engineering, College of Engineering Kottarakkara

27. Dr. Chinnu Jacob attended the 40-hour Virtual APEX Faculty Development Program on "Cybersecurity," conducted from October 6 to November 10, 2025. The program was organized by Tata Consultancy Services (TCS) and delivered in online mode.

28. Prof. Reniya Shajahan also attended the 40-hour Virtual APEX Faculty Development Program on "Cybersecurity," conducted from Oct ober 6 to November 10, 2025. The program was organized by Tata Consultancy Services (TCS) and delivered in online mode.

29. Dr. Chinnu Jacob served as a Resource Person for the five-day Faculty Development Program on "Exploring Research Trends and Applications in Artificial Intelligence" on November 24, 2025, organized by the Department of Computer Science and Engineering, College of Engineering, Karunagappally.

30. Dr. Chinnu Jacob also served as a Resource Person for the Faculty Development Program on "AI and IoT Convergence for Smart Solutions," conducted from December 15 to December 19, 2025, organized by the College of Engineering, Kottarakkara.

31. Prof.Reniya Shajahan has been admitted to the PhD programme at the National Institute of Technology Calicut for the Winter 2025–26 academic session under the Centre of Excellence in Artificial Intelligence

## Student Achievements

1. Ms. Sivani S (Register No. M23MEAI16), S4 M.Tech Artificial Intelligence, served as a Keynote Speaker at the Al Shifa International Student Seminar, delivering a talk on the topic " Th e Future of AI: Large Langu age Models and Human Interaction." The seminar was organized by the Dep artment of Computer Scie nce, Al Shifa College of Arts and Science, Perinthalmanna.

2. Mr. Mohammed Yaseen S (Register No. M23MEAI13), S4 M.Tech Artificial Intelligence, served as a Keynote Speaker at the Al Shifa International Student Seminar, delivering a talk on the topic "Q-Learning and Deep Q-Networks (DQN): From Tabular Methods to Neural Networks." The seminar was organized by the Department of Computer Science, Al Shifa College of Arts and Science, Perinthalmanna.

3. Sandra Jervas, M.Tech S4 (2025), under the guidance of Dr. Chinnu Jacob and Dr. Sumod Sundar, has published a conference paper titled "Context-Driven Chatbot Development: Leveraging Zephyr-7B with Retrieval-Augmented Generation (RAG) for Improved Response Accuracy." The paper was presented at the 2025 Emerging Technologies for Intelligent Systems (ETIS) conference held during February 7–9, 2025, in Trivandrum, and is published in the IEEE conference proceedings. The paper is indexed in IEEE Xplore with the DOI: http://dx.doi.org/10.1109/ETIS64005.2025.10960935.

4. Anandhu Saji, M.Tech S4 (2025), under the guidance of Dr. Fousia Shamsudeen, has published a conference paper titled "Transformer-Based Classification of Closely Related Dravidian Languages in Code-Mixed Data." The paper was presented at the 2025 Emerging Technologies for Intelligent Systems (ETIS) conference held during February 7–9, 2025, in Trivandrum, and is published in the IEEE conference proceedings. The paper is indexed in IEEE Xplore with the DOI: https://-doi.org/10.1109/ETIS6400 5.2025 .10961374.

5. S. Supal and D. Aji, M.Tech S4 (2025), under the guidance of S. M. Anzar and Dr. Chinnu Jacob, have published a conference paper titled "Deep Learning Transformers for Sentiment Classification: A Performance Evaluation." The paper was presented at the 6th International Conference on Control, Communication and Computing (ICCC), held during May 23–25, 2025, in Thiruvananthapuram, India. The paper is published in the IEEE conference proc eedings, pages 1–6, and is indexed in IEEE Xplore with the DOI: 10.1 109/ICCC64910.2025.11077210.

6. Mohammad Yaseen S and Yaqub Moosa Mohamed, M.Tech S4 (2025), under the guidance of Dr. Chinnu Jacob, have published a conference paper titled "Detecting AI-Generated Social Media Comments Using BERT-Extracted Semantic Style Features." The paper was presented at the 2025 Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA) conference and is published in the IEEE conference proceedings. The paper is accessible online with the DOI: https://doi.org/10.1109/ACCTHPA65749.2025.11168496.

7. Harsha Harrison (Register No. TKM24MEAI09), S4 M.Tech Artificial Intelligence, received a Certificate of Presentation for the paper titled "MmWave Path Loss Prediction Using Machine Learning and Deep Learning Techniques," presented at the National Institute of Technology Jamshedpur.

8. Rohith P (Register No. 14), S4, presented a conference paper titled "Deep Learning Technique for Predicting Lung Cancer Using Genome Sequence" at the IEEE ICIH 2025 Conference held in Indore on November 21–22, 20 25. He received a Certificate of Presentation for the same.

9. Anjana K. P (Register No. 5), S4, also presented the paper titled "Deep Learning Technique for Predicting Lung Cancer Using Genome Sequence" at the IEEE ICIH 2025 Conference, Indore, held on November 21–22, 2025, and was awarded a Certificate of Presentation.

10. Thasni Fathima S (Register No. 17), S4, presented a research paper titled "Deep Learning-Based Tool Segmentation for Sinus Surgery Using Endoscopic Images" at the IEEE Eighth International Conference on Image Information Processing (ICIIP 2025), held at Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh.

11. Harsha Harrison (Register No. 9), S4, successfully completed the MOOC course titled "Privacy and Security in Online Social Media" offered by IIT Madras. He was awarded an Elite Silver certification and ranked among the top 5% performers in the course.

12. Abey Ajit (Register No. 1), S4, successfully completed the MOOC course titled "Privacy and Security in Online Social Media" offered by IIT Madras. He was awarded an Elite Silver certification and secured a position among the top 1% perfor mers in the course.

13. Alen M. John, S4 M.Tech Artificial Intelligence, served as a Keynote Speaker at the Al Shifa International Student Seminar, delivering a talk titled "AI Agents: The Next Evolution in Intelligent Systems." The seminar was organized by the Department of Computer Science, Al Shifa College of Arts and Science.

14. Adil Mohammed Shajahan, S4 M.Tech Artificial Intelligence, delivered a talk titled "AI and Machine Learning in Cyber Defense and Forensics" at the Al Shifa International Student Seminar. The event

was organized by the Department of Computer Science, Al Shifa College of Arts and Science.

15. Eight S4 students have secured paid internship positions at Nest Digital, STC Trivandrum.

### Alumni Achievements

1. Hariprasad, an alumnus of the 2021–23 batch, has been promoted to the position of Research Engineer II at Minus Zero Robotics Pvt Ltd. The promotion includes a 30% salary hike, with a current annual compensation of 22 LPA.

2. Mithun M, M.Tech S4 (2024), under the guidance of Dr. Sumod Sundar and Ms. Christy D. Ponnan, has published a conference paper titled "College Library Face Detection and Management System with Anti-Spoofing Mechanism." The paper was presented at the 2024 Asian Conference on Intelligent Technologies (ACOIT), held in Karnataka, India, during September 6–7, 2024, and is published in the IEEE conference proceedings. The paper is available online with the DOI: https://doi.org/10.1109/ACOIT62457.2024.10941336.

3. Reniya Shajahan presented a research paper titled "Alzheimer's Disease Prediction and Classification Using Deep Learning Techniques" at the International Conference on Data Science and Communication (ICTDsC-2024), organized by Siliguri Institute of Technology, Sukna, Siliguri, held on November 21–22, 2024. The paper is available online through Springer Nature proceedings.

4. Reniya Shajahan has been admitted to the PhD programme at the National Institute of Technology Calicut for the Winter 2025–26 academic session under the Centre of Excellence in Artificial Intelligence.

### Merit Evening Awards

Jeena George of the 2023–25 batch secured the position of top scorer in the M.Tech Artificial Intelligence programme.

## DEPARTMENT OF MATHEMATICS

### Faculty Publications & Patents

1. Deepa D., Rajesh Kumar T. J., & Mathew Varkey T. K. (2025). Study on Weighted Sombor Indices and Its QSPR Analysis on Medical Drugs. International Journal of Mathematics Trends and Technology, 71(6), 49–65. https://doi.org/10.14445/22315373/IJMTT-V71I6P105

2. Jisha Mary John & A. Riyas (2025). Cayley fuzzy graph representations of groups with emphasis on subgroup and left coset hierarchies. Proyecciones – Journal of Mathematics, 44(3), 472–477. https://doi.org /10.22199/issn.0717-6279-2025

### Faculty and Staff Achievements

1. Dr. Rajesh Kumar T. J., Assistant Professor, TKMCE, has successfully guided Mr. Shihab P. M. who successfully defended his PhD thesis on 08 September 2025

2. Merin Abraham, Assistant Professor, TKMCE, Kollam, presented a paper titled "On Eigen Values and Energy of Inverse Sum Indeg Matrix of Graphs" at the National Workshop and Conference on Mathematics and its Applications (03–06 March 2025) and received the Best Paper Award, organized by TKM College of Arts and Science in association with IISER Bhopal and KSCSTE–SRIBS.

### Student achievements

Mr. Shihab P. M. successfully defended his PhD thesis on 08 September 2025 under the guidance of Dr. Rajesh Kumar T. J.

## DEPARTMENT OF PHYSICS

### Faculty Publications & Patents

1. Amba Prasad,Manju S. John , Shemim S. S , Aswathy Aromal S , Fergy John, "CaCoFe6O11- an efficient optical and antibacterial ferrite synthesized via modified auto-ignition combustion method" Physics Letters A, Volume 535, 5 March 2025, 130263

2. Anshida Mayeen, MG Praveena, MS Kala, SS Shemim, Nandakumar Kalarikkal, "Synthesis of Selected Strongly Correlated Multiferroic Systems" Advances in highly correlated Systems, P. Nancy, S. Joseph, W. Prellier, S. Thomas, and N. Kalarikkal, Eds. River Publishers, 2025, pp 257-279.

## DEPARTMENT OF CHEMISTRY

### Faculty Publications & Patents

1. C. S. Sreelekshmi, Shiny P. Laila, B. Arunkumar, V. S. Vishnu, K. S. Sandhya, Praveen Kumar, Pooja P. Rajan, P. R. Kavitha Rani, Annette Fernandez, Exploring phenothiazine derivatives: green synthesis, computationalmodelling, and experimental validation for breast cancer therapy, Chem. Pap. (2025). https://doi.org /10.1007/s11696-025-04543-1

2. Book, edited by Dr. Remya V. R. Assistant Professor (Adhoc) Micro- and Nanostructured Epoxy Thermosetting Polymer Blends and their Nanocomposites, Published: 2025 Imprint: Elsevier Language: English ISBN: 978-0-443-21679-4 DOI: 10.1016/C2022-0-03023-3

### Faculty and Staff Achievements

Dr. Habeeb Muhammed M. A., Assistant Professor and Head of the Department, has been awarded research seed money from KTU, with a sanctioned amount of ₹2 lakh.

### Student Achievements

Mrs. Deepa P, a research scholar under the supervision of Dr. Habeeb Muhammed M. A., secured the first position for her short invited lecture in the category of Synthesis and Manufacturing at the International Conference on Nanostructured Materials and Nanocomposites, held at M. G. University, Kottayam. The conference was attended by more than 350 participants from across the globe.

# UAE CHAPTER

## Blood Donation Camp

Bachelor Party: Rummy Night
15th Feb'25, Farmhouse- Dhaid, Sharjah
Total Attendance – 80+

- Ramadan without Accidents - IFTAR Box Distribution
- 21st March 2025 at , Century Mall Signal , Dubai-
- (Supported by Anish Samad, Saji AS, Sreeraj VK, M Anil Kumar, Shibu Morris, Jiju Jalal)

## Asif Mahmood Memorial TBL Season 6 (28th June 2025)

## Ona Nilavu, Woodlem Park School Ajman

Date - 14th September

Patron: Aneessh Samad

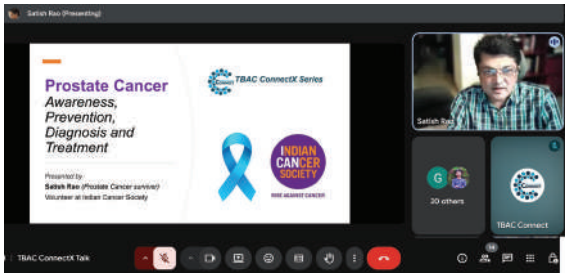
Event Convenor – Saji A S and Coordinator – Saibi Dev

Co Ordinator – AUH – Sameer S

Cultural Coordinators – Jimmy, Premini, Anitha Kasim, Shahida, and Shifa Asif .

Highlight was over 700 Alumni family and friends attended the event.

## BANGALORE CHAPTER




As part of the ConnectX program, TBAC – TKMCE Alumni Association Bangalore Chapter conducted a cancer awareness session as an outreach initiative to promote health consciousness among alumni.

TBAC team emerged as champions in the Open Category at the KEA Inter-Alumni Football Championship, reflecting strong team-work, competitive spirit, and the continued support of alumni.

## DELHI CHAPTER

## Onam Celebration 2025

# SAUDI CHAPTER

## Objectives

To unite all TKM alumni residing across the various regions of the Kingdom of Saudi Arabia under a common platform, fostering a strong sense of fraternity and belonging. The association aims to strengthen personal and professional relationships among members, encourage active interaction among alumni and their families, and create a supportive network for social, cultural, and professional engagement. Through collaborative initiatives, knowledge sharing, mentoring, and skill development programs, the association seeks to enhance the professional growth, personal well-being, and collective progress of its members, while upholding the values and legacy of TKM.

## Executive Committee (2024-25)

| | |
|---|---|
| President: | Srihari Sivadas |
| Vice President: | Navas Salahudeen |
| Secretary: | Muhsin Muhammed |
| Treasurer: | Reshma Naushadali |

## Iftar

An Iftar party was arranged on 13th March 2025 in Riyadh and on 15th March 2025 in Dammam. A large number of alumni members, along with their families, gathered to take part in this sacred and spiritually enriching occasion during the holy month of Ramadan. The event provided a warm and welcoming platform for alumni and their families to come together, strengthen bonds of fraternity, and share moments of unity, reflection, and togetherness in the true spirit of Ramadan.

## Onam Celebration

On 10thOctober 2025, the TKM Alumni Saudi Chapter successfully organized the Onam Celebration in Riyadh, bringing together more than 100 participants along with their families. The vibrant event was filled with joy and cultural spirit, featuring a variety of fun games and engaging activities for both adults and children. The celebration concluded with a delicious and traditional Onam feast, which added to the festive atmosphere and made the occasion truly memorable.

## Smash 2024 and 2025

Smash Season 1 and 2were conducted on November 2024 &2025 respectively.This was a two-day inter engineering college badminton tournament witnessed enthusiastic participation from 19 engineering colleges, with more than 100 players competing in a spirit of sportsmanship and camaraderie.

## Technical Sessions

Technical sessions were conducted by esteemed alumni members, covering a wide range of contemporary and professional topics:

Mr. Tharic – Role of Data Analysis in current market
Mr. Sunil – Steel structures
Mrs. Nedheya – Behavioral Science

## Winter Camp – Eastern Region

On 18th December 2025, TKM Alumni Saudi Chapter conducted Winter Camp in Dammam.

## Winter Camp – Central Region

On 19thDecember 2025, TKM Alumni Saudi Chapter conducted Winter Camp in Riyadh.

**Financial Aid to TKMCE students**

The TKM Alumni Saudi Chapter sponsored the education of two TKMCE students who were facing financial hardship, as part of its commitment to supporting academic excellence and student welfare.

**Farewell for Mr. Abraham Joseph**

TKM Alumni Saudi Chapter conducted a farewell meet to Mr.Abraham Joseph

**Farewell for Mohsin Vayyat**

TKM Alumni Saudi Chapter conducted a farewell meet to Mr. Mohsin.

## MUMBAI CHAPTER

**TKMCE Alumni Mumbai Chapter was formed in 2021.**

**Managing Committee:**

President: Er.Reghu Damodaran 85M

Vice President: Er. Anil Kumar 93 M

Secretary : Er.John Abraham 86 C

Asst. Secretary: Er. Rajesh Mohan 91 E&E

Treasurer: Er. Nisha 2000 C

Committee Members:

Er. Radhakrishnan B 85 E

Er Pradeep S 86 M

Er.T.J.Jacob 89 M

Er(Dr.) Mini R. 90 E

The TKMCE Alumni Mumbai Chapter continued to expand its activities during the year through active engagement, events, and outreach initiatives. The Chapter successfully carried forward its membership drive by adding and involving more alumni in its activities and is presently functioning with more than 140 active members.

During the year, the Mumbai Chapter organized a felicitation function for Dr. S. Somnath, Former Chairman of ISRO and currently Technology Advisor to the Government of Andhra Pradesh, who is also a distinguished alumnus of TKM College of Engineering. The event was held on 03 May 2025 at Navi Mumbai with overwhelming participation from members, their families, and well-wishers. Following the felicitation ceremony, the Chapter conducted its 3rd Annual Get-Together, which featured a variety of cultural programmes followed by a fellowship lunch. In addition, the Chapter arranged a series of webinars on diverse and meaningful topics. The first webinar was conducted by Dr. Abdul Rasheed and Dr. Tara C.M. on the theme "Fuel Your Body with Healthy Eating" on 18 February 2025. The second webinar was by Mrs. Keerthi Unni on "Ragasudharasa – Discussion on Music Therapy" on 11 March 2025. The third webinar was delivered by Mr. Navneet Kumarr on "Financial Planning" on 29 November 2025. The TKMCE Mumbai Alumni Managing Committee expresses its sincere gratitude for the continued support and guidance received from the Hon. Principal, Management, Faculty, and Alumni Office Team. The Mumbai Chapter remains committed to taking alumni activities to greater heights in the coming days.

# KUWAIT CHAPTER

Every year, the TKMCEAA Executive Committee formally hands over the baton to the newly elected EC members, ensuring continuity and strong leadership. Office Bearers for 2025–26: • President: Binu Thomas • Vice President: Subhash Natarajan • General Secretary: Sanij Aby Thomas • Treasurer: Alyn John A

### TKM Bowling Tournament

A mind-blowing bowling tournament exclusively for alumni members, where teams were formed through random selection. This unique format encouraged interaction, teamwork, and fun. It turned into a vibrant family-friendly event filled with excitement, laughter, and sportsmanship.

### KEF Children's Football League

TKMCEAA children showcased outstanding performance and emerged as Runners-Up in the Children's Football League conducted under KEF in November 2025. A proud moment for the association, highlighting talent, teamwork, and sports spirit among our young members.

### Upcoming Events

• Road Trip to Bahrain: An exciting alumni road trip is being planned.• Picnic Day Out: A relaxed and fun-filled picnic is scheduled for the end of March, aimed at strengthening bonds among members and families

### TKM Onam – K-Onam 2025

K-Onam, derived fro m the Malayalam word "Kandonam" meaning "make sure to attend", truly lived

up to its name. Held in September 2025, the event witnessed a gra nd gathering of alumni members.

The program in- cluded an official meeting, engaging games, and cultural moments that added great vibrancy to the celebration. The event concluded on a high note with a delicious traditional Onasadhya and the presence of Maveli, making it a memorable Onam celebration.

### Chess Tournament – Clash of Kings

As part of KEF (Kuwait Engineers Forum), TKMC EAA successfully conducted an inter-alumni chess tournament titled Clash of Kings, in association with KICA (Kuwait Indian Chess Association).

Participants from all 8 alumni associations competed, making the tournament a grand success. The overwhelming response has encouraged us to plan this as a recurring event in the coming years.

# SINGAPORE CHAPTER

The SG TKM alumni gathered in January to celebrate the New Year, marking fresh beginnings, and to acknowledge Chinese New Year, an important festival in Singapore that symbolizes reunion and prosperity. The evening brought alumni together in a spirit of unity, filled with warm greetings, laughter, and fond recollections of shared memories. The gathering concluded with great food and meaningful conversations, and also served as a platform to align on activities for the year ahead and, where needed, refresh the committee to sustain engagement and momentum.

Celebrated the farewell of Mr. Joy Kutty Mathai with early retirement and to return back to Kerala. Joy Kutty is settled in Trivandrum. Joy Kutty had a very successful career both in India and Singapore spanning across industries such as O&G, Semiconductor, FMCG and Pharmacutical manufacturing. During farewell, Joy Kutty shared his memories, life at TKMCE, and thanked the college for turning him out as a successful engineer.

Joy Kutty was the Treasurer of SG Alumni and held the position for few years; successfully handed the role to Mr. Biju Koshy.

Every year alumnus looks forward to the Onam sadya and the cultural activities. In 2025, alumni and their families came together to celebrate Onam. Members performed cultural dance, singing and also had their families perform as well. Finished the Onam celebration with a great sadya and with high spirits. Credits to our members who laid out the athapookalam which brightens the ambiance of the event.

Above all, members of the TKM Alumni are not only engineers by profession, but also active contributors dedicated to uplifting the wider Singapore community. Many hold key roles in respected associations such as KALA and SMA, while generously giving their time to outreach initiatives such as, organizing cricket tournaments with migrant workers and supporting the preparation and distribution of free Onam lunch for the local community. Members also actively organize and participate in cultural celebrations during Vishu, Deepavali, and Onam, strengthening social bonds through shared traditions.

The year concluded with great energy, and the alumni looks forward to carry this enthusiasm, unity, and momentum into 2026 as we come together to celebrate the 10th anniversary of SG alumni.

## Singapore Alumni Committee

**Shaji Philip**
*Chairman*
*Civil-1991*

**Indulekha P L**
*Vice-Chairman*
*Civil-1994*

**Shihana Salahudeen**
*Secretary*
*Civil-2002*

**Sameer Javad**
*Asst-Secretary*
*MCA-1997*

**Biju Koshy**
*Treasurer*
*Mech - 1988*

**Khalid Rafi**
*Technical Coordinator*
*Prod-1997*

**Saima Rasheed**
*Cultural Secretary*
*MCA-2006*

**Shiby Mathew**
*Cultural Secretary*
*Mech-2002*

**Jovi Jacob**
*SG Alumni Coordinator*
*Mech-1988*

**Dhanya S**
*Event Coordination*
*E&E-2002*

# AUSTRALIA CHAPTER

The 2025 calendar year has been a landmark period for the TKMCE Alumni Association Australia Chapter. The year was defined by the spirit of connection and the prestigious presence of college leadership from Kollam, marking a new era of engagement between the institution and its graduates "Down Under."

**Raganjali '16: A Global Online Musical Extravaganza**

**Date: August 2, 2025 (Conducted via Zoom & YouTube Live)**

Raganjali '16 transcended geographical boundaries, uniting the TKMCE community through a world-class digital showcase.

- A Grand Inauguration: The event was graciously inaugurated by the legendary Padmashree K. S. Chithra.
- Opening Addresses: The program commenced with a welcome speech by the President of the Australia Alumni Chapter, Mr. Vineeth Jayan (2006 Mechanical), followed by an introduction to the vision of Raganjali by Mr. Sreekumar B. Nair, Founder of the TKMCE Global Music Club.
- Global Talent & Interaction: The MC team integrated performances from over 25 alumni members worldwide. The event also featured a highly competitive musical quiz competition.
- Key Personnel:Principal Coordinator: Sreekanth Nair (2003 Mechanical).

Coordinators & MCs: Manu Sreedhar (1994 Civil), Nandini Nair (Wife of Sreekanth Nair), and Gayika Vasantha Kumari (2006 Civil)

The event was concluded by delivering a vote of thanks by Mr. Sreekanth Nair to all participants and listeners and wished the Trivandrum chapter all the best for the successful execution of Raganjali 17.

**Brisbane Chapter: Family Gettogether**

**Date: November 9, 2025 | Venue: Bracken Ridge Community Hall, Brisbane, Queensland**

The Brisbane event emphasized the "TKM Family" spirit, providing a long awaited opportunity for alumni and their families living in the Brisbane area to rekindle the TKMCE spirit and create lasting memories together.

- **Distinguished Guests:** The event was honored by the presence of Dr. Sadiq A. (Principal, TKMCE), Dr. Sudheer (Dean of Global Alumni Affairs, TKMCE), and special guest Mr. Lal Abdul Salam (Entrepreneur and Senior Alumni from Dubai).
- **Institutional Insights:** During the session, Dr. Sadiq and Dr. Sudheer shared valuable insights on how alumni contributions directly impact the college's success. Dr. Sadiq specifically highlighted the historic transformation of TKMCE since becoming a Deemed University and shared the ambitious future plans for the institution.
- **Event Organising Team:**
  - Overall Leadership: Vineeth Jayan (2006 Mechanical).
  - Principal Coordinator: Krishnakumar (2006 Production).
  - Coordinator & MC: Sreekanth Nair (2003 Mechanical).
  - Coordinator: Megha Krishnakumar (2006 Civil).

**Sydney Chapter: Gala Dinner**

Date: November 12, 2025 | Venue: Grand Bavarchi, Parramatta, Sydney, NSW

The year's events culminated in a sophisticated Gala Dinner in Sydney, serving as the formal grand finale for the visiting delegation.

- Honored Participants: Alumni in the New South Wales region engaged directly with Dr. Sadiq A., Dr. Sudheer, and Mr. Lal Abdul Salam. The discussions centered on strengthening the bond between the college and the Australian chapter to support the institution's new status as a deemed university.
- **Event Organising Team:**
  - Principal Coordinator:Sermina (1997 Electrical).
  - Coordinator: Dr. Sujatha (1991 Civil).
  - Coordinator: Jacob (2003 Production).

**Conclusion**

The 2025 activities have significantly rejuvenated the ties between the Australian alumni community and TKMCE Kollam. With the college transitioning into a Deemed University, the dedication of our coordinators and the active participation of our members ensure that the Australia Chapter will play a vital role in TKMCE's global future.

Family Gettogether

## OMAN CHAPTER

**Welcoming New Year in Dec-Jan'25 :**

TKM Oman family welcomed the New year with a DJ night and grand buffet at Radisson Panorma Hall. A lot of entertainment programmes and games made the night excited and vibrant.

**Jill Jill Night 2025- Christmas Celebration in Jan'25**

TKM family celebrated Christmas at a Farm house with a Barbeque Party. TKM family had a memorable night with special programmes from children.

**KEF Carnival in Feb'25**

TKM family being the strongest member of Kerala Engineers Family (KEF), a conglomerate of 8 Engineering colleges in Kerala, plays an important role in entertainment programmes as well.

**Perunnal Sora in April'25**

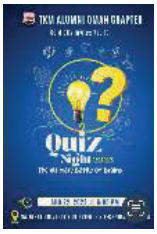
Tkm Oman family has a strong bonding within and hosts Iftar during Holy month of Ramadan. Perunnal sora was well conducted in Golden Tulip, Ruwi.

### Euroyil - A Europe trip in June'25

TKM Oman family always enjoy trips together. Complete relaxation and enjoyment are the objectives of such trips. This time we made a Europe trip covering France, Germany, Prague & Austria A memorable trip filled with beautiful memories.

### Family Quiz Programme for Kerala Engineers Family (KEF) in August'25:

A flagship programme of TKMCE Oman chapter being conducted annually with all other Engineering college Alumnies in Oman.This was silver jubilee session. It's a brain storming session and once again there was a record participation from various college Alumnies competed.

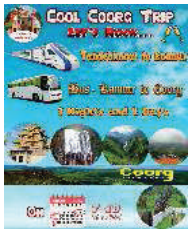


### Thimirth Onam in Sep'25

Tkm family in Oman makes this as another opportunity to meet and celebrate in traditional style. Our youngsters are our strength and their ideas are beyond our imagination. Onam was celebrated in Native story, Ghala.

### TKM Muscat Kerala Trip in Nov'25

Family members of TKM Muscat Kerala wing had a chilling trip to Coorg. It was reminiscent to college tour as the group travelled in a train and a bus and stayed at Coorg for 3 days enjoying the pleasant climate.



### Tarang-Annual day in Nov'25

TKM Oman celebrated the Annual day in a grand way at Novotel Hotel. Live performance by Rafeeq Rahman, Chitrakala & Nikhil Raj. An awesome performance by mentalist Sujith, followed by buffet dinner. New officials were assigned in AGM.

### KEF Annual day in Nov'25

Annual day of KEF is a great occasion to strengthen the relationship between friends and families across the colleges. TKM's Anilbabu was selected as the President of KEF.

### KEF Game in December'25

TKM family, the Red army, has dominated in various events with everyone from kids to veterans participated and performed well. Kids and Children are our big assets. TKM was football champions beating arch rivals, MEA

### New Office bearers:

New Office bearers have been selected during the Annual day event.

President-Er.Midhun.S.Kumar , Vice President- Er.Haris Khadir,

Secretary- Er.Priya James, Treasurer-Kiran.T.John,

Jt.Secretary- Vishnu.G.R

KEF President-Anil Babu, KEF Entertainment Chairman-Visam Sagar,

KEF Carnival Vice Chairman- Mohit.S.Pillai.

Er.E.M.Ashraf is our lifetime Patron. He continues to guide us.

## KOCHI CHAPTER

TKMCE Kochi Chapter Honours Dr. Shahal Hassan Musaliar for Receiving Kerala Sree Puraskaram. The TKM College of Engineering Kochi Alumni Chapter honoured T. K. Shahal Hassan Musaliar for receiving the prestigious Kerala Sree Puraskaram at a special meeting held in Kochi.Addressing the gathering, ISRO Chairman and TKMCE alumnus S. Somanath emphasized that localized issues should be addressed through education and highlighted the importance of collaboration between educational institutions and industry. He also spoke highly of Shahal Hassan Musaliar, describing him as a visionary leader whose contributions to society, education, and public life have left a lasting impact.In his return speech, T. K. Shahal Hassan Musaliar said that the honour truly belongs to everyone associated with the TKM family, acknowledging the collective efforts and support of the institution, its alumni, and well-wishers in his journey.As part of the felicitation, Dr. P. T. Mathew, President of the TKMCE Kochi Alumni Chapter, presented a memento to Shahal Hassan Musaliar. The event witnessed the participation of alumni, academicians, and distinguished guests, celebrating excellence and unity within the TKM community.

## TRIVANDRUM CHAPTER

TKM College of Engineering Alumni Association Trivandrum Chapter is comprising of 850 members representing various Govt, Private Organizations and business organizations in Trivandrum.

Major Highlights of the activities of the TKM College of Engineering Alumni Association Trivandrum chapter during 2025 are as follows (13 Highlights)

❖ Felicitation programme for Janab Shahal Hassan Musaliar Chairman, TKM Trust and Dr. S. Somanath , former Chairman ISRO and Family Get Together Function of TKM Alumni Association Trivandrum Chapter held on 08/03/2025 (Saturday) at Hotel Prasanth Trivandrum

❖ 35th Annual General Body meeting of TKM College of Engineering Alumni Association Trivandrum Chapter held on 08/04/2025 at Hotel Padma Café, Statue, Trivandrum

❖Release of 3rd edition of annual Newsletter of TKM Alumni Association (TKM BOND) during the period 2024-2025 by Er. Sheriff Rasheed, IRS Joint Commissioner of Income tax. Kochi

❖ Raganjali 17th version conducted by TKM Global music club in association with TKM college of Engineering Alumni Association Trivandrum chapter on 04/10/2025 via online through zoom platform

❖ Ever first time Medical camp conducted by the TKM College of Engineering Alumni Association Trivandrum chapter on 14/12/2025 (Sunday) at Institution of Engineers Hall, Trivandrum Vellayambalam for the benefit of members and family members

*Lighting the lamp by **Janab Shahal Hassan Musaliar** Chairman, TKM Trust and **Dr. S.Somanath** former Chairman ISRO*

## QATAR CHAPTER

**Khel Fest-2025-** Internal sports event of TKMCE Alumni Qatar Internal sport event, with formation of 4 teams with previous years standings of each individuals to ensure that all teams are equally supported to each other. The fun filled event start in Nov 2024 with practices in field and trolls in social media platforms.

**Engineers Forum Athletic Meet & Sargotsavam – 2025**

Inter alumni event organize by Engineers Forum Qatar, TKMCE Alumni Qatar grabbed the championship beating with high margin of points among other 15 engineering alumni's.

## CENTRAL TRAVANCORE CHAPTER

**Activities :**

- Commemorating the 100th Birth Anniversary of the Great Indian Singer Muhammad Rafi.
- 26th Annual Get-Together & Family Meet
- Conducted a charity program for the differently-abled students of Asa Bhavan, Kanakkari near Ettumanoor.
- A technical visit was organized to two major landmarks in Thiruvananthapuram, Vizhinjam International Seaport & Brahmos Aerospace
- A special technical talk was conducted to observe National Engineer's Day.
- A joint family meet of TKMCE CTC and TKM 60 Plus members.

# TKMCE ALUMNI RECEIVE STATE E-GOVERNANCE AWARD FOR "SAMAGRA" INITIATIVE

Two distinguished alumni of TKM College of Engineering — Sunil Kumar V. V. (1991 CSE), Deputy Chief Engineer (IT), and Sabida Salam (1995 CSE), Executive Engineer (IT) — have been honoured with the State e-Governance Award, presented by the Hon'ble Chief Minister of Kerala, Shri Pinarayi Vijayan.

The award recognises the successful implementation of "Samagra", an integrated application developed by the IT Department of the Kerala State Electricity Board (KSEB). Both alumni played key roles in the project, contributing to enhanced digital service delivery, operational efficiency, and technology-enabled governance within the state electricity sector.

The recognition highlights the impactful contributions of TKMCE alumni in advancing e-governance and public sector digital transformation in Kerala.

# ALUMNUS ER. SABIR SALEEM DONATES NVIDIA MINI SUPERCOMPUTER TO TKMCE

Er. Sabir Saleem, alumnus of the 2001 Civil Engineering batch and CEO of MBUZZ, generously donated an Nvidia mini supercomputer to TKM College of Engineering on 27 November 2025. The compact system, equivalent in computing power to 1,000 laptops, was formally handed over to Principal Dr. Sadiq and Dean (Alumni Affairs) Dr. Sudheer during their visit to MBUZZ, Dubai, following the UAE Alumni Meet in Abu Dhabi.

The system was subsequently unveiled at TKMCE on 28 November in the presence of Trust Member Sri. Khalid Musaliar, and officially transferred to the Department of Computer Science & Artificial Intelligence for academic and research use.

TKMCE expresses its heartfelt gratitude to Er. Sabir Saleem for his impactful contribution, which will further strengthen the institution's capabilities in advanced computing, AI, and data-driven research.

# TENX ABU DHABI EDITION 2025 MARKS DYNAMIC CURTAIN RAISER TO ANNUAL UAE ALUMNI MEET

The 38th Annual Meet of the TKMCE Alumni UAE Chapter commenced

with a dynamic opening through the TENX – TKMCE Entrepreneurs Network (Abu Dhabi Edition) held on 22 November 2025 at the Diwan Ballroom, Beach Rotana Hotel, Abu Dhabi. The gathering brought together over 150 entrepreneurs, professionals, and alumni families under the theme "Connect, Collaborate & Grow," setting an engaging and purposeful tone for the annual celebrations.

The event was inaugurated by Janab Shahal Hassan Musaliar, Hon. Chairman, TKM Trust, who underscored the importance of alumni-driven professional ecosystems and global networks. A special message from Dr. Sadiq Abdul Majeed, Principal, TKMCE, highlighted how platforms like TENX

contribute to institutional pride, visibility, and relevance in a globally evolving landscape.
The evening was graced by the presence of distinguished Trust Members Mr. Khalid Musaliar and Dr. M. Haroon, along with Mr. Khais Musaliar and Mr. Siddiq M. Thaha. Senior academic leaders from TKMCE, including Dr. Sudheer (Dean, Alumni Affairs & International Collaborations) and Dr. Rijo Jacob (Dean, Strategic Planning & Foreign Students Advisor) also participated in the event.
The Chief Guest, Mr. Joy Sebastian (1999 MCA), CEO, Techgentsia, delivered an insightful address reflecting on innovation, resilience, and the entrepreneurial journey. The Keynote Address by Mr. Khadeer Peer Shariff (1997 EEE), CEO & Executive Director, Gibraltar Technologies, offered deep perspectives on leadership and digital transformation in contemporary business environments.
A compelling panel discussion titled "If Not Now, When – Seizing Opportunities in the UAE" became a major highlight of the evening. Moderated by Mr. Arshad TK (1997 EEE) and
featuring industry leader Mr. Lal Abdul Salam (1988 CHE) as panel speaker, the session explored timing, preparedness, and the growing opportunities for TKMCE alumni across the Emirates.
The event was well coordinated under the leadership of Event Convenor Mr. Rahim A. Rahman (1991 ME) with strategic support from Event Patron Mr. Anil Kumar (1984 ME). The programme was anchored by EMCEE Mr. Binsu Joy (1995 ME), whose presence ensured a seamless and engaging flow.
The gathering was further honoured by the presence of renowned music composer and distinguished alumnus Mr. M. Jayachandran, senior advisors Mr. Shahul Hameed and Mr. Viswamohan, along with board members, chapter leaders, and numerous alumni families.
A key highlight was the participation of 15 TKMCE entrepreneurs, who delivered brief presentations on their ventures, journeys, and collaborative goals. Their sessions showcased a shared vision to expand the TKM entrepreneurial network through mutual support, collaboration, and cross-border growth—across the UAE and into India.
The TENX Abu Dhabi Edition 2025 concluded with a networking dinner, during which new conversations, partnerships, and business connections emerged, making the event a significant and inspiring curtain raiser to the 38th Annual Meet of the TKMCE Alumni UAE Chapter.

## TKMCE ALUMNI EXPANDS TO SWEDEN AND THE NORDIC REGION

The global footprint of TKMCE Alumni reached a new milestone with the initiation of efforts to establish the TKMCE Alumni – Sweden & Nordic Chapter. A delegation from TKM College of Engineering visited Stockholm, Sweden, and held an interactive meeting with alumni on 9 April 2025. During the meeting, it was resolved to formally commence the Sweden & Nordic Chapter in the near future. Mr. Martin Jacob (1994 MCA), Mr. Jayakumar Naranath Raghavan (1984–88 Production), and Mrs. Mini Hariharan (1983–88 Production) were entrusted with coordinating the formation process. To support the initiative, a Working Committee comprising Mr. Rajesh Kallingal (2008 ECE), Mr. Siju John (1999 MCA), Mr. Praveen Rajan (2003 CSE), Mr. Niyaz Ayipoottammel (2000 ECE), and Mr. Arun Rengit Koshy (2000 EEE) was constituted. The TKMCE delegation included Mrs. and Mr. M. Haroon (Member, TKM College Trust), Dr. Sajeeb R. (Principal), Dr. S. Ayoob (Executive Director), Dr. Sudheer A. (Dean, Alumni & International Collaborations), Dr. Rijo Jacob Thomas (Dean, Strategic Planning & Foreign Students Advisor), and Dr. Adarsh S. (Dean, Academics). Upon formal completion, the Sweden & Nordic Chapter will become the 24th official Alumni Chapter of TKM College of Engineering, further strengthening its international network

# TKMCE INAUGURATES FIRST PHASE OF 400 KWP SOLAR PLANT PROJECT

TKM College of Engineering achieved a major sustainability milestone with the inauguration of the first phase of its Solar Plant Project, executed by TATA Solar, on 12 September 2025. The ceremony was inaugurated by TKM Trust Chairman, Jb. Shahal Hassan Musaliar, with Janab Jalaluddin Musaliar (Treasurer, TKM Trust) formally switching on the installation. The event was attended by Trust Members, alumni representatives, the Executive Director, Principal, HoDs, Deans, faculty, and students. The initiative has been led by the Department of Electrical & Electronics Engineering (EEE) with exemplary commitment. The contributions of HoD, Dr. Sheeba, and her team, along with the support of Sri. Khais Musaliar (TKM College Trust), were central to the successful execution of the project. Appreciation was also extended to officials from the Electrical Inspectorate and KSEB, whose guidance and technical support played a crucial role in shaping the project. The complete project envisions a 400 kWp solar plant, at an estimated cost of ₹2 Crores, structured as a joint initiative between the TKMCE management and its global alumni network. The 100 kWp first phase has been successfully sourced and installed by the TKM College Trust over the Mechanical and Architecture Blocks. Planning is currently underway for the 200 kWp second phase above the Main Block, followed by the third phase over the Workshop/RUSA Block.

Global alumni support has been significant, with expected contributions of ₹1 Crore towards the project. As of now, ₹34 lakhs has been secured through generous contributions Special appreciation was noted for the contributions and coordination of Anees Mohideen, Haris Abubakker, and Nizamuddin Musaliar from the UAE Alumni community. Assured support has also been received from the 1998, 2001, and 2003 batches, as well as from individual alumni entrepreneurs across the UAE and other regions. The Solar Plant Project is expected to strengthen sustainable energy practices on campus, support the transition towards a green campus, and enable enhanced student research and innovation, fostering publishable and patentable outcomes. TKMCE welcomes continued support from its alumni community to advance this transformative initiative and drive the institution towards a more sustainable future.

# TKMCE SIGNS MOU WITH CMS GLOBAL TO STRENGTHEN HVAC-R INDUSTRY COLLABORATION CMS GLOBAL

CMS GLOBAL (Century Mechanical Systems Factory LLC, Dubai) and TKM College of Engineering have officially signed a Memorandum of Understanding (MoU), marking a significant step in advancing industry–academia collaboration in the HVAC-R sector.

This engagement was initiated by Dr. Manu J. Pillai, Head – Career Guidance & Placement Unit (CGPU), TKMCE. As part of the initiative, Dr. Leena R. (Assistant Professor, Department of Mechanical Engineering) visited the CMS Global Corporate Office, Dubai, and interacted with Mr. Jess Philip (General Manager), Mr. Ramasubbiah S. (Sales & Marketing Manager – Middle East and Secretary, TKMIT Alumni UAE Chapter), Dr.

Giri Nandagopal (Product Development Engineer), Ms. Jasmine Mubarak (Assistant Manager – HR & Administration), and Mr. Harikrishnan (Technical Coordinator and TKMCE Alumnus).

Headquartered in Dubai, CMS Global is a leading manufacturer in the HVAC

domain, offering integrated air management and fire-rated solutions for modern buildings and critical infrastructure. Their product portfolio includes air filters, ecology units, HVAC and fire-rated ducts, fire dampers, grilles & diffusers, acoustic louvers, HVAC accessories, flexible ducts, duct connectors, aluminum tapes, and gasket tapes, ensuring reliable, high-performance, and compliant solutions across global markets.

This MoU enables knowledge exchange, industry exposure, research collaboration, and upskilling opportunities for students and faculty, while fostering deeper engagement between academia and the HVAC-R ecosystem.

## KOLLAM HONOURS KERALASHREE JB. TK SHAHAL HASSAN MUSALIAR

A special civic gathering titled "A Tribute to a Trailblazer" was held at the TKM College of Engineering Auditorium to honour Keralashree JB. TK Shahal Hassan Musaliar for his lifelong contributions to education, leadership, and societal progress.

The event was graced by the distinguished presence of Shri A. N. Shamseer (Speaker, Kerala Legislative Assembly), Shri K. N. Balagopal (Finance Minister), Shri N. K. Premachandran (MP), Shri M. Naushad (MLA), and Shri P. C. Vishwanath (MLA).

Also present were Treasurer Jalaluddin Musaliar, the Principal of TKM College of Engineering, faculty, staff, and well-wishers who gathered to celebrate a leader whose vision has shaped generations.

Organised jointly by the Citizenry of Kollam and the TKM Alumni Association, the evening served as a heartfelt tribute and a moment of collective pride for the city and the institution.

## TKMCE NEW ZEALAND CHAPTER INAUGURATED IN AUCKLAND

The TKMCE New Zealand Chapter was officially inaugurated at the University of Auckland Community Hall on 8 November 2025, marking a proud milestone for the global TKM alumni community. The ceremonial lamp was lit by Principal Dr. Sadiq, Dean (Alumni Affairs) Dr. Sudheer, Sri. Lal Abdul Salam, Sri. Saji Mathew, Sri. Faizal Muhammed, Dr. Lal Busher, Sri. Ijaz Nazarudeen, and others. A message from Chairman Sri. Shahal Hassan Musaliar was shared by Dr. Sudheer, followed by a cake-cutting to commemorate the occasion.

In his inaugural address, Principal Dr. Sadiq spoke on the importance of strong alumni networks in guiding and mentoring young engineers. Dr. Sudheer invited New Zealand alumni to visit the campus and share their professional experiences with students. Sri. Saji Mathew (1987 batch) expressed his happiness in leading the newly formed chapter, while Sri. Lal Abdul Salam shared insights from his alumni journey and extended support. Dr. M. Haroon conveyed his regards, as he could not attend the event in person.

The programme was compered by Fida Fathima (2022 batch), and the vote of thanks was delivered by Sri. Ijaz Nazarudeen (2016 batch). The event concluded with a lunch and cultural performances, marking a warm and memorable beginning for TKMCE's presence in New Zealand.

The inauguration stands as a proud moment for the TKMCE family worldwide, further strengthening its global alumni network and collaborative spirit.

# TKMCE SAUDI ALUMNI CHAPTER HOSTS INTER-ENGINEERING BADMINTON CHAMPIONSHIP

The Inter-Engineering College Badminton Championship Tournament, titled "SINMAR TKMCE Smash 25 – Season 2", was successfully conducted under the leadership of the TKM College of Engineering Saudi Alumni Chapter on 20–21 November at the Riyadh International Indian School (IISR) Boys Section.

The tournament logo was formally unveiled on 9 November by Grandmaster Dr. G. S. Pradeep, in the presence of sponsors SINMAR, MAR Projects, Roo Electrical Factory, Ultra Treatment, Jetat, and members of the TKM Alumni fraternity.

The inauguration ceremony on 20 November was graced by Master Hanin Rahman, National and Kerala State Under-13 Badminton Champion, as Chief Guest. He was joined by Er. Binoj (SINMAR Representative), Er. Abdul Nisar (KEF President), Er. Srihari Sivadas (TKMCE Saudi Alumni President), Er. Ashik Pandikashala (KEF Vice President), and Er. Anwar (TKMCE Alumnus and MD, MAR Projects).

Over 120 players representing 19 engineering college alumni associations participated, showcasing high-quality badminton over two days of intense competition. MES College of Engineering, Kuttippuram Alumni emerged as overall champions, followed by CET Thiruvananthapuram Alumni in second place and CUSAT Alumni in third. The Overall Championship Trophy, along with trophies and cash awards for individual category winners, was presented during the closing ceremony on 21 November. Master Emmanuel Saji, Kerala Under-11 & Under-13 Badminton Champion, served as Chief Guest and distributed certificates to all participating children.The "Emerging Player" Award was presented to Master Amzi from the MES Alumni, recognizing his outstanding performance.The closing ceremony witnessed participation from Mr. Anil Kumar (CEO, SINMAR), Mr. Satheesh Kumar (MD, Ultra Treatment), office bearers of the TKMCE Saudi Alumni Chapter, alumni representatives from Dammam, Jeddah, and Riyadh, and sponsors including Prime Innovation, MAR Projects, Roo Electrical Factory, Invicta Anara, and JTAT.

Beyond the sporting arena, TKMCE Smash Season 2 brought together badminton enthusiasts from Malayali engineering alumni across Saudi Arabia and featured family-friendly attractions such as an art exhibition, face painting, Mehendi, a welcome dance, and a flash mob by children. Food stalls—including the Kerala-style "Olapeedika" and the "Hey Momos" stall run by alumni families—added a distinctive cultural flavour to the event.

# DIGITAL BLANKET, CO-FOUNDED BY ALUMNUS BALA CHITOOR, RECOGNIZED BY FORBES AND VERDANTIX

Digital Blanket, a Kochi-based startup co-founded by TKMCE alumnus Bala Chitoor (1985 ECE), has earned international recognition by being listed among the world's top 11 innovative companies by Verdantix, a leading global research and advisory firm. The platform has also secured a place in the Forbes-approved digital assessment, underscoring its global credibility and impact.

Founded by Sudhir Sharma (Founder) and Bala Chitoor (Co-Founder), Digital Blanket leverages advanced AI platforms for job placement, skill development, and workforce enablement across multiple industries. The company's solutions are designed to reduce the cost of funding, business networking, and branding, providing an efficient digital environment for organizations.

According to Bala Chitoor, Digital Blanket is rapidly expanding its footprint in both the Indian and international markets, offering a secure platform that enables risk management, operational efficiencies, and cost optimization for diverse enterprises. The initiative aims to open up significant global opportunities through technology-driven workforce solutions.

# TKMCE ALUMNI GERMANY CHAPTER INAUGURATED IN MUNICH

The TKMCE Alumni Chapter Germany was formally inaugurated on 5 April 2025 in Munich, marking another milestone in the college's expanding global alumni network. The ceremony was led by Dr. M. Haroon (Trust Member & Director of Alumni Operations), and attended by a delegation from TKMCE along with alumni from across Germany and neighbouring countries.

The session commenced with a welcome address by Er. Anand, President of the Germany Chapter, followed by the official inauguration by Dr. M. Haroon. Principal Dr. Sajeeb R. addressed the gathering, highlighting the importance of international alumni engagement. Dr. S. Ayoob (Executive Director) delivered the keynote address, and Dr. Sudheer (Dean,

Alumni Affairs & International Collaborations) offered felicitations. Alumni representatives from Switzerland (Er. Thomaskutty) and Belgium (Er. Dinesh) shared their messages and support.

Senior alumnus Er. Giri Krishnan (1999 ECE), Chief Coordinator of the Germany Chapter, outlined the chapter's milestones and formation journey. The chapter's official logo, designed by Er. Salma, was formally launched and she was felicitated for her contribution.

TKMCE officials including Dr. Rijo Jacob (Dean, Strategic Planning & Foreign Students Advisor), Dr. Adarsh (Professor & Dean Academics), and Prof. Mohasin Haroon were honoured by the Germany Chapter. Er. Keerthi (1999 batch) announced the launch of "TKMCE Women Global" and unveiled its logo during the programme.

The event concluded with a vote of thanks by Er. Devika, Vice-President of the Germany Chapter. Over 60 alumni participated, engaging in technical talks, cultural programmes, and discussions on future academic and collaborative initiatives with TKMCE

# INTERACTIVE ALUMNI EXPERIENCE SHARING SESSION- Y2K BATCH

Interactive Alumni Experience Sharing Session organized by the TKM College of Engineering (TKMCE) Alumni Association as part of the Silver Jubilee Reunion 2000 Batch on 18th July 2025 at A P J Hall, TKMCE, Kollam. Esteemed Silver Jubilee Alumni shared their professional journeys offering insights on innovation, mentorship, and thriving in a rapidly changing tech landscape.

Speakers & Topics:

1. Hareesh MV ME (Moderator) – Director, Harnez Fin. Engineering Solutions Pvt. Ltd., Thiruvananthapuram.
2. Ramesh S Iyer ME – Product Portfolio Director, MariApps Marine Solutions, Kochi.
Topic: Adapting with Technology: From Marine Engineer to IT Entrepreneur.
3. Abhilash Shanmugan EEE – Business CIO, Digital IT – Global Marketing, Phillips 66, Houston, TX, USA.
Topic: The Power of Mentorship in the Startup Ecosystem.
4. Vijay Ramamurthi EEE – Senior Engineer, Apple Inc., USA.
Topic: The Role of R&D in Driving Innovative Product Development.
5. Biju KC EEE – Design Manager, Nael General Contracting LLC, AbuDhabi, UAE.
Topic: Bridging Technical Mastery and Human Skills in Engineering Careers.

# TASC DONATES LAPTOPS AND SPONSORS HOSTEL EXPENSES FOR TKMCE STUDENTS

The TKM Alumni Society Civil (TASC) — a charitable trust formed by the 1983–88 first batch of Civil Engineering alumni — donated laptops to seven deserving students of TKM College of Engineering, with additional support from their classmates. In a further act of generosity, TASC has also committed to sponsoring the full hostel expenses of six more students, ensuring continued support for their academic journey.

The event was attended by Principal Dr. R. Sajeeb, Vice Principal Dr. Ansamma John, Dr. N. Nishanth, Dr. R. Sheeba, Dr. Maneesh Rasheed, Dr. A. Sudheer, along with TASC office bearers Er. B. Padmakumar, Er. S. Santhosh, and Dr. S. Ayoob.

This initiative reflects the enduring commitment of TKMCE alumni to uplift the student community and foster a culture of social responsibility, mentorship, and academic support.

Dinner meeting with the TKMCE alumni leaders of Sydney at Paramatta, Sydney, Australia on 12.11.2025

# TKMCE DELEGATION EXPLORES ACADEMIC COLLABORATION AT MARSHALL UNIVERSITY, USA

A delegation from TKM College of Engineering visited Marshall University, USA, on 15 April 2025, to advance collaborative initiatives outlined under the existing Memorandum of
Understanding (MoU) between the two institutions. The team was led by Dr. M. Haroon M (Member, TKM College Trust), Dr. S. Ayoob (Executive Director), and Dr. Sudheer A (Dean, Alumni & International Collaborations).

During the visit, the delegation held productive meetings with senior academic leaders and visited multiple schools and departments including the College of Engineering & Computer Sciences, Brad D. Smith School of Business, School of Pharmacy, School of Health Professions, School of Biosciences, and the Bill Noe Flight School. Discussions focused on opportunities for joint research, faculty and student exchange, co-supervised academic projects, and collaborative training programs.

The visit was coordinated with support from faculty at Marshall University, with special acknowledgment to Dr. Nandini Manne and TKMCE alumnus Er. Arun Subramony (1990 Mechanical) for facilitating engagements across departments. The delegation also expressed gratitude to the administrative office for enabling deeper academic dialogues across disciplines.

Both institutions conveyed strong interest in expanding cooperation in research, education, innovation, and international training, with the next phase involving detailed frameworks between corresponding schools and departments for sustainable collaboration.

TKM College of Engineering extends its heartfelt appreciation to Marshall University for the warm hospitality and constructive academic engagement during the visit.

# TKM INITIATES COLLABORATIONS WITH UNIVERSITY OF OSLO, NORWAY

The TKM team comprising of principal Dr.Sajeeb.R, Dr Adarsh. S and Dr.Rijo Jacob Thomas had a meeting with Prof.Lena Merete Tallaksen (Professor and Head of Physical Geography and Hydrology) and Prof. Chong-Yu Xu (Professor in Physical Geography and Hydrology) of the Department of Geoscience, University of Oslo, Norway on 10th April 2025. This scheduled meeting was initiated by Dr. Adarsh as suggested by Prof. Lena and was cartied out as a part of the ongoing travel of the TKM team in Germany and Norway to strengthen international tieups with internationally reputed academic institutions. It is expected that this association may lead to the development of a mutual research collaborations between both the institutions.

# MOU SIGNED BETWEEN TKMCE AND UNIVERSITY OF OULU, FINLAND

A landmark academic milestone was achieved on 7 April 2025, when TKM College of Engineering signed a Memorandum of Understanding (MoU) with the University of Oulu, Finland, during a ceremony held at Oulu. The MoU was signed by the Principal of TKMCE and a senior faculty representative from the University of Oulu, marking a significant step toward global academic engagement. The agreement aims to facilitate collaboration across the Civil, Mechanical, and Electrical Engineering branches and outlines key objectives including student internships, joint research, joint publications, faculty training, and exchange programs. The collaboration originated through joint research activities between faculty members of both institutions and has now expanded into a formal partnership. Delegations from both sides held academic discussions, visited research laboratories, and attended presentations by the University of Oulu's management and pedagogy teams. The event concluded with a luncheon attended by delegates and guests. This MoU is expected to pave the way for impactful joint initiatives, enhanced research visibility, and stronger international exchange between the two institutions.

# TKMCE AND TOKYO METROPOLITAN UNIVERSITY SIGN HISTORIC MOU

On 20 May 2025, TKM College of Engineering signed a historic Memorandum of Understanding (MoU) with Tokyo Metropolitan University (TMU), Japan, in a ceremony
attended by academic leaders from both institutions and the First Secretary of the Indian Embassy in Tokyo. With this agreement, TKMCE becomes the first institution from Kerala to collaborate with TMU, marking a milestone in its international expansion and research-focused academic vision.
Representing TMU at the ceremony were Dr. Takaya Ohashi (President, Tokyo Metropolitan University), Dr. Shinsuke Takagi (Dean, Faculty of Urban Environmental Sciences), Dr. Yoshiyuki Imamura (Head, Department of Civil and Environmental Engineering), Dr. Katsuhide Yokoyama (Collaborating Partner & Professor, Department of Civil and Envi-

ronmental Engineering), and Dr. Gubash Azhikodan (Collaborating Partner & Assistant Professor, Department of Civil and Environmental Engineering). The event also witnessed the participation of the First Secretary (Education & Culture), Embassy of India, Tokyo, Mr. Umesh Nautiyal, reflecting strong diplomatic and academic support for the collaboration.

From TKMCE, the delegation comprised Dr. Sajeeb R. (Principal, TKM College of Engineering), Dr. Sudheer A. (Dean – Alumni Affairs & International Collaborations), and Dr. Priya K. L. (Dean – Research), who jointly represented the institution during the signing ceremony and associated discussions.

The MoU focuses on four major areas of collaboration: exchange of academic staff, exchange of students, cooperation in research, and a range of educational and institutional exchange programs. These initiatives are designed to promote joint learning environments, international exposure, and co-developed research outcomes.

Prior to the MoU, TMU and TKMCE had already built a strong working relationship, resulting in over 50 student internships, joint projects valued at 2.4 million JPY, 10 joint research publications, and multiple collaborative conference sessions. This formal agreement now strengthens and institutionalizes the collaboration, enabling structured expansion into new academic domains and interdisciplinary research.

Looking ahead, both institutions expressed optimism about exploring new collaborative ventures, expanding the partnership to additional engineering departments, and fostering research networks with global relevance. The MoU is expected to accelerate international academic engagement for TKMCE and provide students and faculty with direct access to advanced research ecosystems in Japan

## TKMCE DELEGATION EXPLORES COLLABORATION WITH TECHNICAL UNIVERSITY OF MUNICH

A delegation from TKM College of Engineering, led by Principal Dr. Sajeeb R, visited the Technical University of Munich (TUM) on 4 April 2025 to explore avenues for academic and research collaboration. Productive discussions were held with faculty members from the Department of Civil Engineering on opportunities for joint research, academic publications, and student internships. During the visit, Dr. Adarsh S. (Dean, Academics) presented his research work in hydrology, which received commendation from the TUM faculty for its scientific relevance and methodological depth. From TUM, the meeting included participation from Prof. Dr.-Ing. Karl Broich, Prof. Dr.-Ing. Markus Disse, and Prof. Dr.-Ing. Antonios Taskarestos. Representing TKMCE were Dr. Sudheer A. (Dean, Alumni Affairs & International Collaborations), Dr. Rijo Jacob Thomas (Dean, Strategic Planning & Foreign Students Advisor), and Mr. Althaf, an alumnus of TKMCE and current student at TUM.

# OTHER EVENTS

Principal Dr.Sadiq and Dean of Alumni affairs,Dr. Sudheer, visited the New South Wales (NSW)Parliament House and attended the session on Skills and Work Opportunities- Pathways with Indian market, along with the Hon. Warren Kirby Member of Parliament, Chris Carmen, CEO-Work Initiatives and Irfan Malik, Chairman of India -Australia Business council. Government support for students from India who want to pursue a career in Australia and after study work visa for engineering students were also discussed.

Principal Dr. Sadiq and Dean (Alumni Affairs) Dr. Sudheer visited the University of New South Wales (UNSW), Australia, to explore avenues for institutional collaboration, particularly in the areas of innovation and entrepreneurship. During the discussions, the UNSW team highlighted the strong startup and innovation ecosystem nurtured within Australian universities, supported extensively by government-backed incubation programs, research funding, and industry partnerships. The delegation noted significant potential for TKMCE startups and student innovators to engage with this ecosystem through joint programs, mentorship, and collaborative incubation opportunities.

TASC (TKM Alumni Society of Civil Engineering, Batch of 1983–88), with generous support from its members, distributed the first phase of merit-cum-means scholarships, awarding ₹15,000 each to nine deserving students of TKM College of Engineering this afternoon. Principal Dr. A. Sadiq received the cheque from the TASC office bearers on behalf of the college in the presence of the advisors and faculty.

# RETRONOVA 2025 MARKS GRAND 38TH ANNUAL EVENT OF TKMCE ALUMNI UAE CHAPTER

The 38th Annual Event of the TKMCE Alumni UAE Chapter, titled “RETRONOVA 2025”, was celebrated with grandeur on Sunday, 23 November 2025, at Beach Rotana, Abu Dhabi. The event was inaugurated by TKM Trust Chair-

man and Kerala Sree Awardee Janab Shahal Hassan Musaliar, in the presence of over 1,000+ alumni, families, dignitaries, sponsors, and guests, reflecting the chapter's enduring strength and legacy. Event Convenor Suraj Safar (2000 ME) opened the programme by welcoming former Presidents (1987–2025), Patron Nazir Khan (1990 ME), and current office bearers. A nostalgic legacy video highlighted the chapter's four decades of contributions, followed by addresses from senior alumni leaders Chandran Divakaran (1976 CE) and V. Viswamohan (1978 ME). The gathering fondly remembered M. G. Prakash (1973 EEE), a founding member who passed away a week before the event. Key proceedings at RETRONOVA 2025 included a welcome address by Shibu Stephen (1996 ME), Vice President – DXB & NE, followed by a keynote address from renowned music composer and alumnus M. Jayachandran. Greetings and messages were delivered by Principal Dr. Sadiq Abdul Majeed, Chapter President Haris Aboobaker (1999 ME), Patron Nazir Khan, Advisory Board Representative Shahul Hameed (1973 EEE), and Dean (Alumni Affairs) Dr. Sudheer. The Annual Report was presented by Savad Salahudeen (1996 ME). The felicitation session honoured Grade 10 & 12 academic high achievers, Gold Coin Award recipients sponsored by Khadeer Peer Shariff (1997 EEE), and included Ponnada for Janab Shahal Hassan Musaliar, as well as Golden Jubilee (1975 batch) and Silver Jubilee (2000 batch) recognitions. A heartfelt Guruvandanam segment paid tribute to ten former faculty members, including former Principal Dr. Shahul Hameed.

The event adopted a creative theme "Retro vs Nova", conceptualized by Afeez Ahammed (1998 EEE) and Jimmy Joseph (2000 PE), showcasing a blend of heritage and modernity through themed attire, stage lighting, countdown sequences, and a legacy film produced by Jayakrishnan (2005 ME). The cultural line-up featured the horror-comedy skit "Manthravum Thanthravum 5G" by Kani S. Kalam Keralapuram (1999 ME), a vibrant fashion show choreographed by Soniya Jimmy, and a musical grand finale by Sithara Krishnakumar's Project Malabaricus. An engaging music block led by Deepu Prasanth (1997 EEE) with multiple vocal talents added depth to the artistic celebrations. The programme also saw the announcement of new office bearers for 2026, followed by closing remarks from Suraj Safar, who acknowledged the committed efforts of volunteers, sponsors, performers, and participants. With 15+ cultural performances, 200+ performers, and an atmosphere celebrating continuity and innovation, RETRONOVA 2025 remains a significant milestone in the history of the TKMCE Alumni UAE Chapter

## ALUMNI MEET-UP: UK

On 9thAugust 2025, the heart of London played host to a memorable gathering as TKMCE alumni from across the city came together for an informal yet meaningful meetup at Baker Street. What began as a simple reunion unfolded into an evening of shared laughter, heartfelt conversations, and renewed connections. Over dinner, alumni reminisced about cherished campus days while exchanging stories of their journeys since and life within the diaspora. The celebration continued with relaxed networking and leisurely conversations in a nearby park, where friendships were rekindled and new bonds were formed. The meetup stood as a beautiful reminder that no matter where life takes them, the spirit of TKMCE continues to unite its alumni across borders and time.

# TKMCE- AICTE NODAL CENTRE FORUNIVERSAL HUMAN VALUES (UHV)

TKM College of Engineering, Kollam, Kerala , has been recognized as a Nodal Centre for Universal Human Values (UHV) by the All India Council for Technical Education (AICTE) for the period 2025–27.

Impact / Outcome of UHV Implementation in the Institution

The Universal Human Values Cell of TKMCE was established in the year 2023. The implementation of Universal Human Values (UHV) at TKM College of Engineering,Kollam has brought about a positive shift in both academic and campus culture. Studentshave shown improved empathy, discipline, and social awareness through participation inSocially Relevant Projects (SRPs) such as Automated Drainage Cleaning Robot, WasteManagement Drive, and Child Safety Sensor for Special Schools. The integration ofUHV-II as a 3-credit course and the inclusion of SRP in the 6th semester have furtherstrengthened value-based learning.Faculty involvement has increased steadily, with 60 faculty members completing UHV-IFDPs and 45 completing UHV-II FDPs between 2023 and 2025. Weekly UHV meetingsand peer discussions have encouraged reflective practices and ethical teachingapproaches.In 2025, the cell has synergised all the TKM group of institutions, with all the heads resolving to work together for the development of the community.The institution also has presented the impact in national and international conferences. In the recently concluded 10th International Conference on Human values in Higher education, TKMCE was an organizing partner. Dr. Sadiq A (Principal), Sri. Khais Musaliar (CMD member), Dr. Bijuna Kunju (Convenor, UHV Cell), Dr. Amal Azad Sahib and Dr. Anu N (Coordinators, UHV Cell) have served in various capacities such as chairpersons, resource person and institution presenter for the conference.Overall, the institution has developed a value-oriented campus environment characterized by collaboration, mutual respect, and community engagement. UHV initiatives have enhanced social responsibility among students and faculty, aligning education with ethical and humanistic principles.

# GLOBAL MUSIC CLUB ACTIVITY REPORT 2025

Tkmce Global Music Club formed in October 2020 after the first Global Musical meet named "Raganjali", initiated by Tkmce Oman chapter. Objectives of this club are:

- To strengthen the bonding between the Alumni members across the Globe.
- To give a platform to the talents from Tkmce Alumni families for displaying their talents.

15th session of Raganjali hosted by Tkmce Delhi chapter to celebrate Christmas and New Year was held on 1st February,2025. Shri.Vidyadharan master was the chief guest. Eighteen members participated in the session. Music club paid homage to Shri.P.Jayachandran who left us.

16th session of Raganjali hosted by Tkmce Australia chapter was held on 2nd August 2025. Smt. K.S. Chithra was the chief guest. Shri.Vineeth Srinivasan , Dr. Sadiq and Dr. Sudheer gave felicitation speeches. Twenty three members participated in the session. This was a special edition to pay tribute to our member and an excellent singer Late. Shri. Unnikrishnan.S

17th session of Raganjali hosted by Tkmce Trivandrum chapter to celebrate Onam was held on 4th October, 2025. Shri.M.Jayachandran was the chief guest. Twenty three members participated in the session. Trivandrum chapteris the first chapter hosting Raganjali for a 2nd time. Appreciate their enthusiasm and passion. Quiz Programme of Music Club. The Quiz programme started for fun has become very popular and it's being conducted every day, except Sunday. Every session of Raganjali had Quiz sessions as well. That was quite interesting for viewers. Host chapters sponsor gifts for the winners. Quiz Programme was named as "ആരാദ്യം പറയും" Manoj.T, 94 Elec proposed this name.

# TKMCE ALUMNI ACHIEVEMENTS

## GATE ACHIEVERS 2025: TKMCE

Over 100 students from different departments in the TKM College of Engineering cleared GATE in 2025. Civil Engineering, the Department of Architecture, Electronics and Communication Engineering, and Computer Science & Engineering are a few of these departments with TKMCE GATE achievers.

GATE toppers from TKMCE secured positions within the first 200 ranks by scoring high in the exam. Students Muhammed Haleem and Muhammed Fiyas from the Department of Electronics and Communication Engineering secured All India Rank (AIR) 20 and AIR 174, respectively. In the Department of Computer Science & Engineering, the top ranks came from alumni Akshay V (AIR 45), who studied in batch 2020-2024, and Rahul Jose (AIR 58), who was a student of the department from 2019 to 2023.These recent TKMCE student success stories are not just personal victories. They also reflect the robust academic ecosystem at the college. It is characterized by structured mentoring, a peer-driven learning culture, and focused GATE coaching. These elements have made TKMCE a launchpad for students aspiring to get into NITs, IITs, IISc, and top public sector undertakings (PSUs).

Hearty congratulations to Shreeganesh V Nair and Deepa Ganesh ( 93'Civil) for being recognized for three awards by IGBC( Indian Green Building Council) at the Green Building Congress held at Jio Convention centre Mumbai.

1. Net Zero Energy precertification awarded for Terminal and Cargo buildings of Cochin International Airport.
2. Platinum rating awarded for the SBI IAD ( Internal Audit Department) Hyderabad
3. Gold rating awarded for SBI Moula Ali Staff quarters Hyderabad

Vijay Ramamurthy, an alumnus of the Electrical and Electronics Engineering (EEE) Batch of 2000 from TKM College of Engineering (TKMCE), is currently serving as a Senior Engineer at Apple Inc., USA, where he has been part of the elite team behind the groundbreaking N1 Connectivity Chip that powers the newly launched iPhone 17 series. His significant contribution to this next-generation technology stands as a true moment of pride for TKMCE, and his achievement was also featured in the Vrit 2025 communications, further highlighting the global impact made by the institution's distinguished alumni.

Dija S, an alumna of TKM College of Engineering (Computer Science & Engg. 1994-98 Batch), has received the Award of Excellence for Leadership in Digital Forensics Research from the Future Crime Research Foundation (FCRF) during the award ceremony on February 14, 2025, at India's largest conference on technology-driven crime, Future Crime Summit 2025 held in New Delhi. She is currently Associate Director/Scientist F at the Centre for Development of Advanced Computing (C-DAC), Thiruvananthapuram

Dr. Adarsh S. receiving deep appreciation for exceptional mentorship and guidance to the Batch of 2025, Department of Civil Engineering

Dr. Anu V. Thomas receiving recognition of the exemplary leadership, guiding the Batch of 2025 as the HoD, Department of Civil Engineering

Dr. Shameem Ansar receiving recognition of outstanding mentorship that guided the students of Department of Computer Science and Engineering, to achieve the Highest Number of GATE qualifications

Dr. Manu J Pillaireceiving recognition of outstanding mentorship that guided the students of Department of Computer Science and Engineering, to achieve the Highest Number of GATE qualifications

Dr. Manesh Rasheed received award for outstanding mentorship in guiding students to achieve remarkable success in national level sports events.

Dr. Aneesh G. Nath receiving recognition of the exemplary leadership, guiding the Batch of 2025

Dr. Sudheer A. receiving recognition of his remarkable contribution in strengthening alumni engagement and support for the institute

Noel Rebu Sam (2024 Mechanical) Secured admission in Imperial College London & Texas A&M University USA

Dr. Priya K. L., Dr. Rijo Jacob Thomas, Dr. Baiju V., Dr. Mubarak Ali receiving recognition of transformative contributions in advancing research through impactful funding and collaborations

# OBITUARY

Janab T.K Kamaludeen Musaliar
Secretary of TKM Trust

Janab. T.K Badaruddin Musaliar
TKM Trust Member

Anitha Kalesh
(1984 Civil)

Shaji Baby John
(1982 Mech)

M.G Prakash
(1973 Electrical)

George Thomas
(1968 Civil)

Midhun R Chand
(2005 Mechanical)

Manoj Kumar PV
(1992 ECE)

Josephine Susan Manuel
(2002 Civil)

Divya Soman
(2004 EEE)

Sijo Chacko
(2015 ME)

Anjana A
(2005 EEE)

Johnson Chacko
(1982 Mechanical)

Thobias CC
(1988 Electrical)

# OBITUARY

Unnikrishnan S
(Chemical 1988)

Jalaludeen M S
(1970 Mechanical)

John Cherian
(Former Professor
of Civil Dept.)

Opang Moyong
(2003 Civil)

Mohammed Nazir
(1985 Chemical)

Riju M R
(1999 ECE)

Yousuf
(2015 EEE)

Chandran Elayidam
(1963 batch)

V Padmakumar
(1985 Chemical)

Aneesh Devasia
(2024 EEE)

Anoop Kumar
(1994 ME)

M B Birty
(1970 Civil)

Gopal Raj
(2019 Civil)

Prof. K T Mohammad Kunhji
(1965 Mechanical)

Krishnadas
(1990 Mechanical)

Varghese C Varghese
(1963 Mechanical)

Shaji Salahuddeen
(1997 Production)

# CLUB MILLENNIUM TKM 60 PLUS AWARDS 2025

BEST OUTGOING STUDENT AWARD
Akshara Suresh
Civil Engineering 2021-2025

MOST DESERVING IST YEAR STUDENT AWARD
Asna S. B.
Computer Science & Engineering (Artificial Intelligence) 2024-2028

# TKMCE ALUMNI TIMES EDITORIAL COMMITTEE

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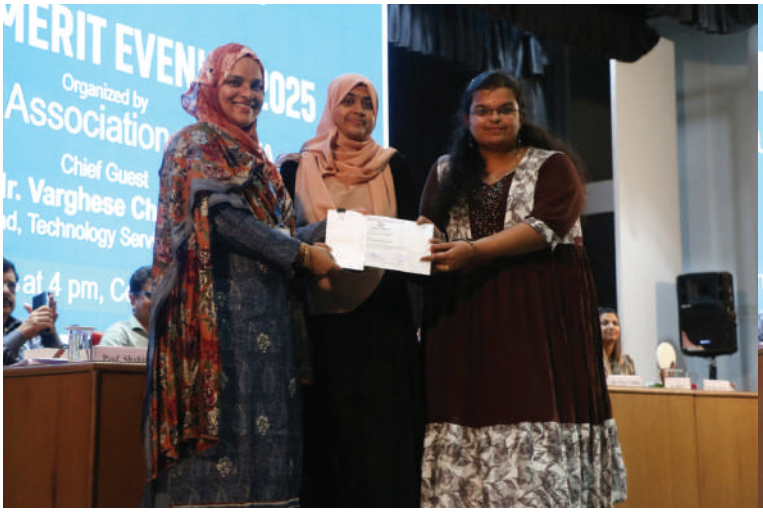
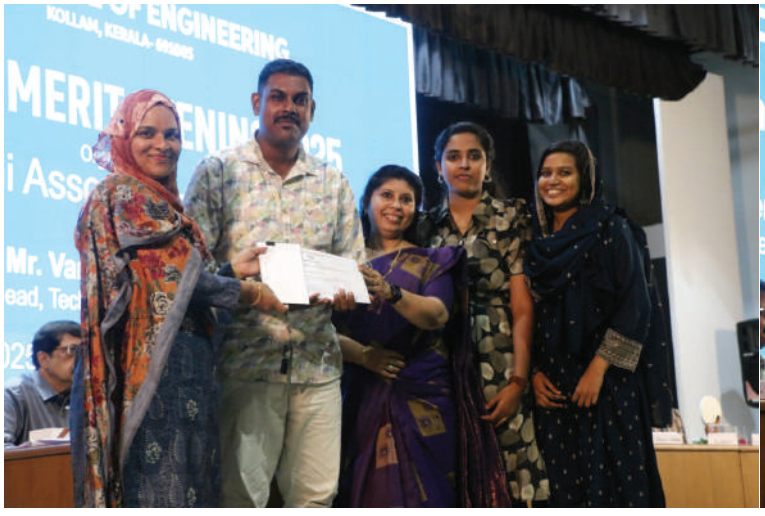
Prof. Naheez Nazar

Dr. Fousia Shamsudeen

Prof. Raiza Rasheed

# BEST PROJECT AWARDS - MERIT EVENING 2025





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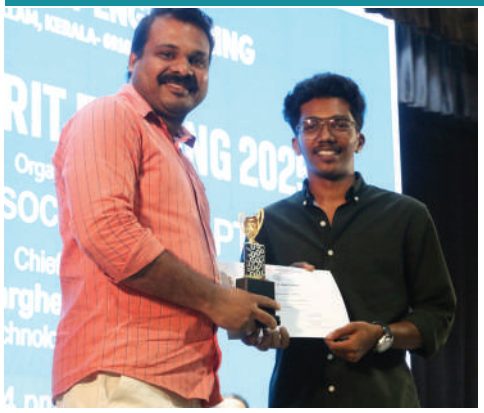
Alumni Operations)

Dr. Sudheer A.
(Dean
Alumni Affairs)

Dr. Resmi R.
(Associate Dean
Alumni Affairs)

Dr. Firoz N.
(Associate Dean
Alumni Affairs)

# TKMCE STUDENTS ACHIEVEMENTS



## COLLEGE OF ENGINEERING

Karicode, TKMC P.O., Kollam - 691 005. Ph : 0474 - 2712024, 27131

**Regular B.Tech. Engg. Degree Courses:** Civil Engg., Mechanical Engg., Electrical & Electronics Engg., Chemical Engg., Production Engg.,Computer Science & Engg., Electronics & Communication Engg., B.Arch. Computer Science & Engg. (AI)
**M.Tech Programme Regular :** Industrial Refrigeration & Cryogenic Engg., (Mechanical), Structural Engg. & Construction Management (Civil), Computer Integrated Manufacturing (Mechanical), Industrial Instrumentation & Control (Electrical), Computer Science, Communication System (Electronics), Power System , Electric Vehicle Technology (Electrical). **P.G. Regular Courses :** MCA.

## COLLEGE OF ARTS & SCIENCE

Karicode, TKMC PO, Kollam-691 005. Ph : 0474-2712240, 2711817, Mob: 9446641817. www.tkmcas.ac.in

**UG Programmes :** B.Sc. Mathematics, Physics, Chemistry, Botany, Zoology, Biochemistry, B.Com. Finance, B.Com Computer Application, B.A. Islamic History B.A. English-History of English Literature **PG Programmes :** M.Com. Finance Stream, M.Sc. Mathematics, Physics, Chemistry, Biochemistry, M.A. English.
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## INSTITUTE OF MANAGEMENT

Musaliar Hills, Karuvelil P.O., Kollam - 691 505.
Ph : 0474 - 2482465, 2483527. Web:tkmim.org

**M.B.A. (Full Time - Accredited by the National Board of Accreditation (NBA) New Delhi)**
One of Kerala's premier B-schools, which has laid
a benchmark in consistently turning out top-notch management professionals.
(Approved by AICTE & Affiliated to University of Kerala.)

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Ph : 0474 - 2482833, 2482083. Web : tkmit.ac.in

**B.Tech. Engg. Degree Courses:** Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Food Technology, Mechanical Engineering **M.Tech Programme :** VLSI and Embeded Systems, Opto Electronics Engineering, Signal Processing, Computer and Information Science, Software Engineering

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Ph : 0474 - 2165246 /47 /48 Web : www.tkmsa.org

**Courses** : B.Arch , **Degree Course**
(Approved by Council of Architecture, New Delhi
& Govt. of Kerala and recognised by the Cochin University of
Science & Technology)

## HIGHER SECONDARY SCHOOL

TKM College Complex, Kollam - 691 005.
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**HighSchool** : Admit Students from Std.VIII.
(Under Directorate of Public Instruction, Kerala).
**+2 Course** : Maths - Computer, Maths - Biology, Commerce- Maths, Commerce-Computer Application, Humanities
( Under Directorate of Higher Secondary Education,Kerala)

## CENTENARY PUBLIC SCHOOL (SENIOR SECONDARY)

TKM College Complex, Kollam - 691 005.
Ph : 0474 - 2711939, 2715650. Web : tkmcps.org

**Courses** : 1st to XII. **+1 Options** : Maths - Biology, Maths - Computer / Engineering Drawing, Biology - Computer / Malayalam, Commerce
(**CBSE**- Central Board of Secondary Education)
**TKM Kindergarten** : Play School, LKG & UKG

## SCHOOL OF COMMUNICATION & INFORMATION TECHNOLOGY

TKM College Complex, Kollam - 691 005
Ph : 0474 - 2719952, 2715232, 2719216. Web : tkm_scit@yahoo.co.in

Distance Education Programme of MADURAI KAMARAJ UNIVERSITY
**Degree Courses** : BBA, B.Com., B.Sc. (Psychology), B.Lisc., **PG Courses** : MBA, M.Com, MCA. M.Sc. (Electronics & Communication, Maths, Psychology) MA - (English, Tourism Management, Labour Management). **PG Diploma Courses** : School Administration, Hospitality Management, Journalism & Mass Communication.

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