



TKM COLLEGE OF ENGINEERING, KOLLAM

ALUMNI TIMES

A PUBLICATION FROM TKMCE ALUMNI ASSOCIATION

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12 COUNTRIES . 22 CHAPTERS
1 LEGACY



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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 happy to address the members of the TKM College of Engineering Alumni Association through the TKM Alumni Times. I hope this will document the achievements of the members of the Association and it is being released to synchronize with the annual get together on the 26th January 2025. As graduates of TKM, you have proven that excellence is not just an achievement but a way of life. Your emotional bonding towards your alma mater and the pursuit of growth will continue to inspire not only your peers but also the generations that follow in your foot steps. Your accomplishments reflect the values and vision instilled during your time at TKM. I am sure that, no dream is too big and no challenge is insurmountable when determination leads the way.

Let us continue to create a legacy that will stand as a beacon of inspiration for years to come.

My good Wishes to all.

Shahal Hassan Musaliar
Chairman, Governing Body

MESSAGE FROM THE PRINCIPAL



It is with immense pride and joy that I address you through this newsletter, highlighting the significant strides our institution has made over the past year.

Since being granted academic autonomy in 2022, our college has embarked on a transformative journey. A new curriculum was introduced in 2023, and based on valuable feedback from stakeholders, it was further revised in 2024. We are fully utilizing the academic freedom granted through autonomy to ensure our students are industry-ready and equipped to tackle real-world challenges with confidence.

Currently, three undergraduate batches are following the autonomous curriculum, and from the academic year 2025-26, all the programs will transition to this system. Our faculty and staff are working tirelessly to ensure a seamless transition as we move toward complete self-reliance in curriculum design and implementation.

Two new programs were introduced this year: B.Tech in Computer Science and Engineering (Artificial Intelligence) and M.Tech in Electric Vehicle Technology. From a humble beginning in 1958 with three undergraduate programs, our college now offers nine undergraduate and 12 postgraduate programs, along with doctoral and post-doctoral opportunities.

It is a privilege to share that our college has been selected as an AICTE "Margadarshan" Institute, mentoring three neighboring institutions with a grant-in-aid of ₹9 lakhs.

Our students have continued to shine academically, with Beema Jihan (Civil Engineering) securing the first rank across all branches in the APJAKTU B.Tech examination 2024 with an extraordinary CGPA of 9.97. In Architecture, Maria Joy secured the 1st rank, and Anjali Murali the 2nd rank, in the 2019-2024 batch.

In research, the college has excelled, with eight scholars earning their PhDs in 2023-24, five patents granted, and 110 faculty publications in indexed journals. The Biomedical Engineering Research Lab has developed a cutting-edge chip for detecting arrhythmias via ECG signals, underscoring our commitment to innovation.

Our student clubs and professional societies remain vibrant, organizing over 400 programs last year, fostering holistic development among students. In sports, our students achieved remarkable milestones, winning championships in the All Kerala Basketball and APJAKTU Athletics (Men) and Football (Men). Additionally, the women's football team, along with the men's and women's tennis teams, secured runner-up positions in the All Kerala APJAKTU Championship.

The college has also enhanced its infrastructure with the addition of a Biomedical Engineering Research Lab, a Geoinformatics Lab, and a state-of-the-art Computer Lab for the Electrical and Computer Engineering program. The TKM Trust is generously contributing to the enhancement of our college's infrastructure facilities.

Our alumni continue to play an integral role in the growth of the institution. The establishment of the Technology Business Incubation Centre, "SEEDS-97," worth ₹25 lakhs, is a shining example of alumni contributions. This project supported by the 1997 batch, reflects the unwavering support of our alumni community.

The recent Wayanad landslide was a heartbreaking tragedy, claiming the life of one of our alumni, Sri. Jishnu Raj. I deeply appreciate the Malabar Chapter for leading relief efforts during this crisis and all our alumni who contributed generously to support the victims.

Our college has embarked on an ambitious journey to establish a solar power plant with an initial capacity of 400 kWp, marking a significant step in our Green Campus Initiative. This project is a cornerstone of our sustainability goals, aiming to reduce electricity costs and harness renewable energy for a greener future. We wholeheartedly invite our esteemed alumni to support this visionary project. Your involvement will not only help us achieve this milestone but also reinforce our commitment to environmental responsibility. Together, let us shape a sustainable and energy-efficient future for our college.

I extend my heartfelt gratitude to all alumni members for staying connected to your alma mater and for your continued support in every endeavor. Your contributions and involvement inspire us to strive for excellence and uphold the legacy of this institution.

With warm regards,

Dr. Sajeeb R
Principal, TKM College of Engineering

MESSAGE FROM TKMCE ALUMNI CHAIRMAN

It is with immense pride that I address you all through this message in the Annual Alumni Times. This past year has witnessed several significant milestones in our collective efforts to support our alma mater. I acknowledge the dedication, support and efforts from the executive committee for successfully launching and executing various initiatives throughout our tenure, truly appreciate the unwavering support and dedication of our alumni community, and the continuous support from TKM College Trust and the college authorities through out the journey.



One of our primary focuses has been to enhance the educational journey of our current students. Through the generous contributions of alumni, we have successfully awarded scholarships to deserving students facing financial hardships. These scholarships have not only provided much-needed financial assistance but also served as a source of encouragement and motivation for academic excellence.

Furthermore, the Alumni fund has played a crucial role in supporting innovative student projects. By providing seed funding and mentorship, we have empowered our students to pursue their research interests and develop cutting-edge solutions to contemporary challenges.

During my tenure as Chairman, I had the privilege of spearheading the "Green Campus" initiative. This ambitious project, undertaken in collaboration with the TKM College Trust and the 1999 batch, aims to enhance the environmental sustainability of our campus. We have made significant strides in this direction, and I am confident that with the continued support of alumni from all batches, we can transform our campus into a model of environmental responsibility.

Another key area of focus has been the revamping of the campus's Wi-Fi and Wired network infrastructure. This project aims to provide our students and faculty with a robust and reliable network that will facilitate seamless access to online resources and enhance the overall learning experience.

Again, I am deeply grateful to all alumni for their generous contributions and unwavering support. Your commitment to TKM College of Engineering has been instrumental in enabling us to achieve these significant milestones. I encourage all alumni to stay connected with the college and continue to contribute to its growth and development.

Let us work together to nurture a vibrant and supportive alumni community that will continue to inspire and empower future generations of engineers.

Sincerely,

Mohammed Khais Jehangir Musaliar
Chairman, TKMCE Alumni Association

MINUTES OF THE 58TH ANNUAL GENERAL BODY MEETING HELD ON JANUARY 26, 2024

The 58th Annual General Body Meeting of TKM College of Engineering Alumni Association was held on 26th January 2024 at 10 AM in the college auditorium. The Chairman of the Alumni Association, Er. Anzar B, welcomed the gathering. The President of the function, Dr. Shahul Hameed, Principal of TKMCE, highlighted the major activities and achievements of the college after gaining autonomous status. He acknowledged the wholehearted financial support provided by the alumni for the kidney transplant of Vishnu V, a postgraduate student in Computer Science. Notable achievements of students in recent university examinations were highlighted, along with updates on research funds received, the total number of Ph.D. registrations, and completed Ph.D.s to date. Janab Shahal Hassan Musaliar, Chairman of TKM Trust, inaugurated the AGM. The Chairman released the "Alumni Times," which portrays the institution's department-wise activities, faculty and student achievements, yearly publications, research funds received, and alumni chapter initiatives. Copies of the "Alumni Times" were distributed to the attendees. The Secretary, Prof. Shanavas T.N, presented the minutes of the 2022-23 AGM, which were passed unanimously. He provided a brief overview of the activities conducted during 2023-24, which included:

- Fund collection for financial support to medical treatment of Vishnu V, with the release of funds in various stages.
- Contribution of 25 lakhs from the 1997 batch for setting up the EDC Incubation Centre infrastructure.
- Financial support of 5 lakhs for the Research Lab in Biomedical Engineering by Alumnus 1989, Shri Abdul Wahid, Emerald Engg and innovative solutions LLC.
- Financial contribution from the 2002 batch for the MCM Scholarship.
- Enhancement of the Manu Memorial Scholarship.
- Introduction of a new scholarship in memory of late Prof. Sreekumar, faculty of the Civil Engineering Department for top student in B Tech. Civil-Structural Engg subject.

Dr. Mathew Skaria, Treasurer of the Alumni Association, presented the audited accounts for 2022-23. Copies were distributed to the attendees, and the accounts were approved. Cash Awards of Rs.25000 instituted by Club Millenium were presented by Dr. Ratnakumar S.

The 1974 batch alumni were honoured during the function. A total of 49 members from Civil, Mechanical, and Electrical branches were presented with "Ponnada." They handed over a cheque as their contribution to the Alumni Association for the MCM Scholarship Fund. The meeting honoured distinguished alumni, Er. Sajan P John, CEO Kochi Water Metro, and Er. Sreekala S Chairperson, Pollution control Board, Government of Kerala for their Professional achievements. Dr. Haroon M, TKM trust member and Dr. Shahul Hameed, presented mementos to them. Election to the office bearers 2024- 25 was held. Dr. M Jayaraju, former faculty member was the returning officer for the same. Dr. Haroon M, TKM Trust member, Dr. Sudheer, Dean Alumni Association and Representative of UAE chapter, Er. Saji Anand and Singapore chapter, Er. Shaji Philip respectively offered felicitation. Dr. Ratnakumar S, President of Club Millenium offered vote of thanks.

TKMCE ALUMNI ASSOCIATION OFFICE BEARERS 2024-25



Dr. Sajeeb R
President
(1991 Civil)



Er. Khaiz Musaliar
Chairman
(1999 Electronics)



Dr. Nadera Beevi S
Vice President (Internal)
(1999 Computer Sc.)



Dr. Manesh Rasheed
Vice President (Internal)



Dr. Mathew Skaria
Secretary (Internal)
(1999 Mechanical)



Dr. Teena Liza John
Treasurer



Dr. Sudheer A
Dean-Alumni & International Affairs



Dr. K A Shafi
Exe. Committee (Internal)
(1991 Mechanical)



Dr. Hashim V
Exe. Committee (Internal)
(1995 Mechanical)



Prof. P. Shajahan
Exe. Committee (Internal)



Prof. Haseena A
Exe. Committee (Internal)
(1998 Civil)



Dr. Chinsu Mereena Joy
Exe. Committee (Internal)
(1998 Civil)



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



Er. Girikrishnan G R
Vice President (External)
(1999 ECE)



Er. Anzar B
Vice President (External)
(1998 Mechanical)



Er. NujumShiyaz
Secretary (External)
(1999 Electronics)



Prof. Laila Moni
Exe. Committee (External)
(1983 ECE)



Dr. Madhusoodhanan Pillai
Exe. Committee (External)
(1990 M.Tech IRCE)



Dr. S Ratnakumar
Exe. Committee (External)
(1978 Electrical)



Er. M.ShahulHameed
Exe. Committee (External)
(1973 Electrical)



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



Er. Saji A S
Exe. Committee (External)
(1990 Civil)



Er. Shaji Philip
Exe. Committee (External)
(1991 Civil)



Er. Sajeedmon T
Exe. Committee (External)
(2003 Production)



Er. Mohan Kumar
Exe. Committee (External)
(1975 batch)



Er. M. S. Revikumar
Exe. Committee (External)
(1975 batch)

FROM THE SECRETARY'S DESK

It brings me immense pride and joy to connect with you through this edition of Alumni Times. Each passing year strengthens our bond as a vibrant community of achievers, united by our alma mater and a shared vision of excellence.

This year, the Alumni Association has reached remarkable milestones and made significant contributions that embody the spirit of giving back. A shining example is the renovation of the IEDC facility, generously supported by the 1997 batch, reflecting our alumni's steadfast commitment to enriching the learning environment for current students. Such initiatives inspire us all to aim higher as a collective.

Beyond infrastructure development, we have continued to foster meaningful connections through various alumni engagement programs, such as the Merit Evening, which celebrated the outstanding achievements of our students. These endeavours highlight the legacy we share and the promising future ahead. Additionally, Club Millennium 60 Plus extended financial assistance to students and contributed to the Wayanad flood relief efforts.

The TKMCE Alumni Chapter also provided invaluable support to faculty and student initiatives, including the UHV Conference, the ROBOCUP '25 organized by the Centre for Robotics at TKMCE, and the SAE India student team for the H-BAJA competition.

As we embark on new ventures like the Green Campus Initiative, I encourage each of you to actively participate in the association's efforts. Whether through mentorship, financial contributions, or staying connected, your involvement makes a profound impact. Let us continue to uphold the values instilled by TKMCE and work together to inspire and empower future generations of engineers.

Wishing you success, happiness, and good health. Together, let us keep the spirit of TKMCE alive and thriving.

Dr. Mathew Skaria

Secretary, TKMCE Alumni Association



ALUMNI MERIT EVENING 2024



The Alumni Merit Evening 2024, jointly hosted by the Alumni Association and the Parent Teacher Association (PTA) of TKM College of Engineering, was held successfully on Friday, 23rd August 2024, at 3 PM in the College Auditorium. The event honored the exceptional talents and achievements of students in academics and sports.

The Chief Guest, Er. Asha Ashokan, Deputy Chief Engineer of Kerala State Electricity Board Ltd (KSEBL), Kollam Electrical Circle, graced the occasion. Her exemplary career in engineering served as an inspiration to students and the TKMCE community.

The program commenced with a warm welcome by Dr. Mathew Skaria, Secretary of the Alumni Association, who acknowledged the presence of distinguished guests, students, faculty, and parents.

Dr. Sajeeb R, Principal of TKMCE, delivered the Presidential Address, highlighting the significance of academic excellence and the role of recognition in motivating future accomplishments.

Er. Asha Ashokan officially inaugurated the event, sharing insights from her professional journey and encouraging students to strive for excellence in their chosen fields.

Felicitations were extended by Dr. Sudheer A (Dean, Alumni Affairs), Adv. Niyas A Salam (PTA Vice President), and Executive Committee Members of the Alumni Association, Sajeedmon T and Prof. Madhusoodanan Pillai.

The highlight of the evening was the recognition of meritorious students and rank holders for their outstanding performance in academics and sports during the past academic year. Their dedication and hard work were celebrated with awards and applause.

The event concluded with a vote of thanks by Dr. Shameem Ansar, Secretary of the PTA, who expressed heartfelt gratitude to the Chief Guest, dignitaries, organizers, and participants for making the event a grand success.

The Alumni Merit Evening 2024 was a memorable celebration of student achievements, fostering a sense of pride and strengthening the bonds between alumni, faculty, students, and parents.



WHAT I GAINED FROM MY ALMA MATER: A JOURNEY TO AN EVERGREEN PROFESSION

ER. ANTONY PRINCE

Er. Antony Prince: A Trailblazer in Marine Engineering and Ship Design

Er. Antony Prince began his illustrious career after graduating from T.K.M. College of Engineering. Starting as a Marine Engineer, he worked with the Shipping Corporation of India from 1968 to 1972, rising to the position of Second Engineer. In 1972, he joined Dockendale Shipping Co., Nassau, Bahamas, and achieved the rank of Chief Engineer by 1975. His career further advanced in 1977 when he joined G.T.R. Campbell Japan Ltd, eventually becoming its President in 1986 and later the President of G.T.R. Campbell International Ltd. in 1989.

In 1990, he relocated to Canada, where he launched his first ship design, "Fantasy," in 1994, which became an instant success. Er. Antony Prince played a pivotal role in transforming Cochin Shipyard into an internationally reputed establishment. Known as an internationally acclaimed ship designer, he was honored with the Thangal Kunju Musaliar Award for Lifetime Achievement in 2020.



What I Gained from My Alma Mater: A Journey to an Evergreen Profession

In early 1963, I was fortunate to secure admission to T.K.M. College of Engineering and a place in its hostel. Initially, I shared a large hall, known as "LPS School," with six others. Though privacy was limited, this setup taught us valuable lessons in coexistence and adjustment. Challenges such as sharing limited sanitary facilities were quickly overcome, fostering camaraderie among us. Unlike the harsh ragging prevalent in other colleges, our seniors were friendly and supportive.

The hostel mess provided a well-balanced diet, ensuring our boarding and lodging needs were met. With these basics taken care of, our focus shifted to academics. To my surprise, I found our teachers strict yet approachable and helpful. During my first year, I was elected class representative, a role that allowed me to interact with seniors like the late Mr. Muhammed Kunjhi, an inspiring figure who excelled in academics, sports, and leadership. He became my role model, and I aspired to follow in his footsteps. While I was an average student academically, I managed to pass my tests and examinations, thanks to the supportive environment of the college. Sports and extracurricular activities were highly encouraged, with several students excelling at state and national levels. These activities taught us resilience and teamwork, preparing us for life's challenges.

Memorable Experiences and Lessons Learned

Our teachers were not only brilliant but also gifted educators who inspired us to love their subjects. George Sir, who taught Solid Geometry, stood out as an exceptional teacher. By the second year, we delved into core engineering subjects, which determined our branch based on our academic performance. I chose Mechanical Engineering, a decision that shaped my future. During my college years, I actively participated in various activities, including serving as the Planning Forum Secretary under the guidance of Prof. M.K.A. Hameed. He encouraged me to address social issues through symposiums, such as "Should Political Parties Use Students in Politics" and "Will Computerisation Increase Unemployment." Organizing these events taught me invaluable lessons in planning, communication, and public relations. One memorable incident involved organizing a benefit show at Musaliar Theatre to raise funds for financially struggling students. Despite the challenges, we successfully raised Rs. 16,000. However, balancing these activities with academics was difficult, leading to a warning from my student advisor. With the support of my teachers, classmates, and seniors, I managed to catch up and perform well in my studies.

The Seeds of My Career

My exposure to technical tours, project management tools like PERT and CPM, and various extracurricular activities

laid the foundation for my career in shipping and ship design. These experiences honed my technical, organizational, and people skills, which proved invaluable in the professional world.

After graduating, I chose shipping as my career and later transitioned to ship design, where I left a lasting mark. The trustees of T.K.M. College were highly supportive, especially when I worked to get the college recognized by the Director General of Shipping for marine engineering training.

Message to Future Generations

To the students of T.K.M. College and my fellow alumni, I wish you all the best in your endeavors. For those interested in a career in shipping or ship design, feel free to reach out to me at ap@marinedesigners.in or via WhatsApp at +91 9447054974.

Warm regards,

Antony Prince
Batch of 1968 M

A DELEGATION FROM TKM COLLEGE OF ENGINEERING VISITS THE UNIVERSITY OF NEWCASTLE, AUSTRALIA

A team from TKM College of Engineering, led by Principal Dr. Sajeeb R, Dean of Alumni Affairs Dr. Sudheer A, and TKM Trust representative Mr. Mohammed Khais Jehangir Musaliar, visited the University of Newcastle, Australia. They were guided and supported by Mr. Irfan Malik, National Associate Chair and President NSW of the Australia-India Business Council who has taken all efforts to facilitate this meeting.

The team held high-level discussions with the University of Newcastle's delegation, led by Prof. Kent Anderson, Deputy Vice Chancellor of Global Engagement and Partnerships, along with other senior officials, Prof. Grant B. Weber-Head, Discipline of Chemical Engineering, Mr. Chris Mumford- Director, Future Students International, Professor Ajayan Vinu-Global innovation Chair Professor. TKM College's Dr. M. Haroon, Trust member & Director of Alumni Operations, Dr. S. Ayoob, Executive Director of TKM Group of Institutions, and Dr. K.A. Shafi, Vice Principal, joined the meeting online.



A DELEGATION FROM TKM COLLEGE OF ENGINEERING VISITS THE UNIVERSITY WESTERN SYDNEY, AUSTRALIA



Principal and Team from TKMCE visits the Western Sydney University, Australia, which is currently ranked number one in the world in Sustainability.

A team from TKM College of Engineering, led by Principal Dr. Sajeeb R, Dean of Alumni Affairs Dr. Sudheer A, and TKM Trust representative Mr. Khais Jehangir Musaliar, visited the Western Sydney University, Australia on 13th August 2024 to discuss potential tie ups with the University. They were guided and supported by Mr. Irfan Malik, National Associate Chair and President NSW of the Australia-India Business Council who had facilitated this engagement.

The team held high-level discussions with the Western Sydney University whose delegation was led by Prof. Deborah Sweeney-Senior Deputy Vice Chancellor (Research, enterprise and Global) along with other senior officials, Dr. Nicolene Murdoch- Pro Vice-Chancellor for Global partnerships, Prof. Brian Falzon- Dean, School of Engineering, Ms. Angelique Harslett -Strategic Project consultant, Ms. Elizabeth Casey -International delegations coordinator.

“NINAVU” 99@25 - THE 1999 BATCH SILVER JUBILEE REUNION AT TKM COLLEGE OF ENGINEERING

Date: August 3rd, 2024

The Silver Jubilee celebration of the 1999 batch of TKM College of Engineering, titled Ninavu 99@25, was a grand and heartwarming event that united around 200 alumni members and their families from across the globe. It commemorated 25 years of cherished memories and marked another joyous moment of togetherness, following the 20th-year reunion (Nilave'19) held in August 2019.

The event, organized with meticulous planning and enthusiasm by the Silver Jubilee Coordination Team lead by Haris Aboobaker, Girikrishnan Radhamma, Khais Musaliar, Nujum Shiyas, Binu Shankar, Bini's Thomas, Adarsh John, Binu Sivadas, Shammy Rahim, Anees Moideen, Saji Nair, Mathew Skaria, Nadera, Pinku Pillai etc. highlighted the deep bonds shared among batchmates and their commitment to their alma mater.

The 25th reunion, Ninavu 99@25, marked a momentous milestone for the 1999 batch, rekindling friendships and honoring the profound impact of their alma mater on their lives. The contributions made by the batch towards the Green Campus initiative and their consistent support to the institution and community over the years underscore their unwavering commitment to the college's vision and legacy.

The Ninavu 99@25 Silver Jubilee Reunion was a remarkable success, underscoring the enduring bond between the 1999 batch alumni and TKM College of Engineering.

The coordination team expresses heartfelt gratitude to the TKM trust and college authorities, all attendees, contributors, and organizers for making this event truly unforgettable.



ORIKKAL KOODI 1999-2003

The 1999-2003 batchmates wholeheartedly took part in recreating wonderful memories and emotions attached to TKMCE, the prestigious educational institution where they graduated. Back to campus after two decades, around 225 of our Alumni from 15 countries took part in this reminiscing event which happened on the 20th of July, 2024. The program was inaugurated by our beloved Chairman of TKM Trust, Sri. Shahal Hassan Musaliar. Other dignitaries who graced the function included Mr. Sadiq S Thaha, Member of TKM Trust, Dr. S Ayoob, Executive Director, TKM Trust, Dr. Sajeeb R, Principal, Dr. Sudheer A, Dean of Alumni Affairs, and the teachers who taught 2003. Batch. Teachers from each batch were felicitated by the respective batch students. The event witnessed two of the retired teachers, Dr.Seema.K.Nair(Civil dept.) and Prof. Gayathri(Former HoD, EEE dept.) performing classical dance on the stage. The anchoring of the Orikkal Koodi, welcoming of dignitaries, handing over of mementos to dignitaries, etc. were done by the students of 99-03 itself. The 8 pillars of our Central Portico were dedicated to one branch each, which was a unique first-time concept. The representatives of the batch also had a fruitful discussion with the Principal and Dean of Alumni Affairs about the possible opportunities and needs of the college as well as the current students. The 99-03 batch has promised to support the college in various forms and provide an extended arm to ensure the current students get a chance to be at par with the current global trends across domains. As a prelude to this, a few among the batch had conducted a session on 19th July, Friday with the current batch students imparting industry knowledge. The event at TKMCE was followed by a variety of entertainment programs at Ashtamudi Resort.



ONNU KOODAM 2000-2004

Onnu Koodam - 20th year reunion of 2000-2004 batch.

On July 27th, 2024, the 2000-2004 engineering batch of TKMCE reunited at their beloved college to celebrate their 20 incredible years since graduation. It was a day filled with nostalgia, laughter, and heartfelt memories. Around 250 of the alumni from 15 different countries came together to celebrate their 20th anniversary reunion. Dr.K.Sankaran, former HOD, Chemical Dept., Dean of Amrita Viswa Vidyapeedam, inaugurated the function at the college. The event was also honored by the presence of several distinguished guests, including, Dr.Sajeeb, Principal TKMCE, Dr. S Ayoob, Executive Director, TKM Trust, Dr. Sudheer A, Dean of Alumni Affairs, and the teachers who guided and mentored the 2004 batch. The Principal Dr.Sajeeb released the batch's collection of memories as a book " Ormakalil onnu Koodam".

The batch presented mementos to the dignitaries as a token of appreciation and gratitude. The teachers, whose guidance and support were instrumental in shaping their careers and lives joined the alumni at the stage during "Guruvandanam", event, which was a unique experience. The batch carved

out some time to appreciate their teacher's dedication & support. The batch celebrated Dr.Sankaran's 50 the year in Academia as well.

The Principal and the Dean of Alumni Affairs talked about the potential opportunities and the needs of both the college and current students. The 2004 batch acknowledged the requests and committed to support the college in various possible ways.

The cultural programs performed by the batch mates made the event really memorable.

From reconnecting with old friends to reminiscing about those sleepless nights before exams, the batch relived every moment that made their college days unforgettable. The campus tour brought back waves of nostalgia, seeing the places where they spent countless hours learning, growing, and forging lifelong friendships.



SEEDS 97: A STEP TOWARDS INNOVATION AND ENTREPRENEURSHIP



Start-up Enabled Entrepreneurship Development Space (SEEDS 97) at TKM College of Engineering is an initiative that marks a pivotal milestone in fostering innovation and entrepreneurship within our institution.

The event was inaugurated by our honorable Minister for Finance, Sri K N Balagopal, amidst a gathering of distinguished dignitaries, alumni, faculty, staff, and students. The initiative, spearheaded by the 1997 alumni batch under the visionary leadership of Er. Sinimol, a prominent entrepreneur based in the UAE, stands as a testament to the strong bond between the alumni and their alma mater. This project, generously funded with ₹25 lakhs, represents a landmark moment as the first instance of such significant alumni support in our college's history. Students, faculty, and aspiring entrepreneurs to engage with

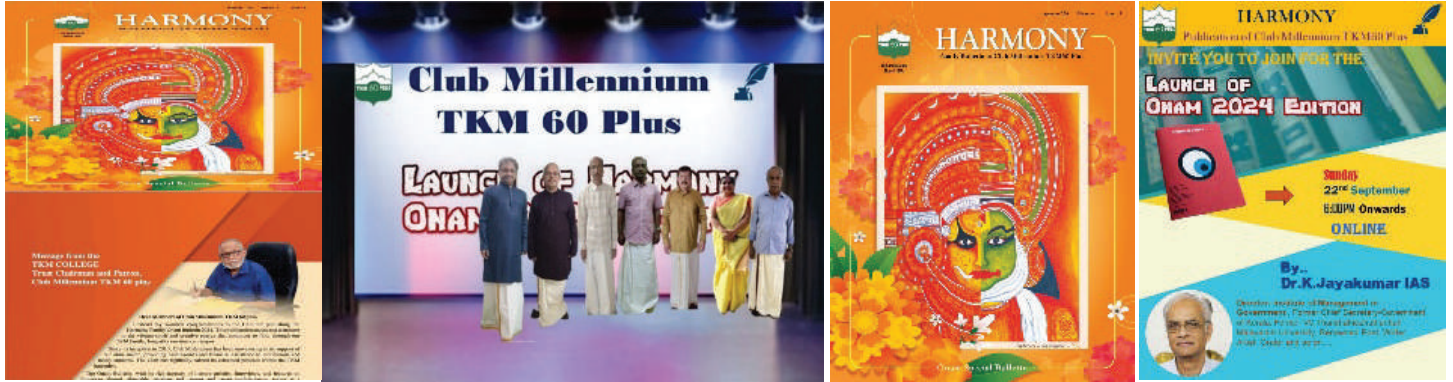
industry leaders and gain deep insights into the startup ecosystem. A highlight of the event was an exclusive session with Anoop Ambika, CEO of Kerala Start-Up Mission (KSUM). Participants had the unique opportunity to interact with him and gain valuable perspectives on fostering innovation and building a vibrant startup ecosystem in Kerala.



REPORT OF CLUB MILLENNIUM TKM 60 PLUS (2023-2024)

Launch of Harmony Bulletin's Onam 2024 edition :

The launching of Tkm 60+'s Onam edition of Harmony Bulletin was done by Dr.K.Jayakumar IAS in September. TKM 60+'s Harmony bulletin is filled with artistic creativities of TKM 60+ members and their family members. Right from the cover page till the last page, the Onam edition of Harmony bulletin is very unique in it's makeover. This was followed by cultural programmes by our club members and their families displaying their talents to take everyone to a world of entertainment.



UAE Trip, 2024 : A record number of 36 family members including 21 Club members made a dream trip to UAE to enjoy the beauty of UAE and to attend the Global Annual day function hosted by TKMCE UAE chapter. The touring members visited various wonders in UAE and enjoyed the changing faces of UAE. This included a cruise, desert safari, Burj Khalifa, Mosque and Temple in Abu Dhabi

Awesome hospitality by Tkmce UAE chapter added colour to the trip and strengthened the bonding between both the chapters.



14th AGM, 2024: 14th AGM of Club Millennium TKM 60 Plus was conducted in June. The meeting was conducted Online. All founder members, MC members and several members participated. The revamped website was displayed by founder Er.Jacob Varghese. Various other agenda items were discussed. New Office bearers were selected.

President : Er.K.G.Muralidharan,1972E

Vice President : Er.Veena.PN, 1981E

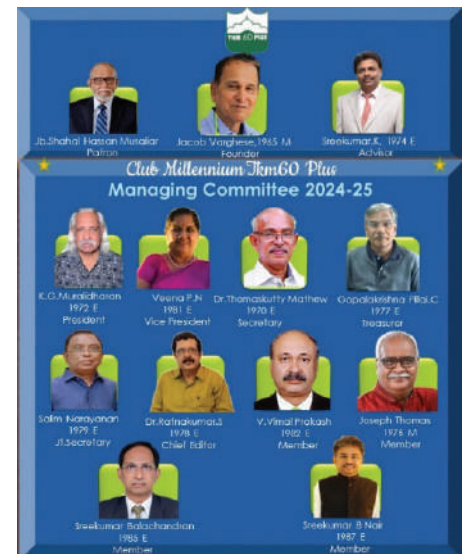
Secretary : Dr.Thomaskutty Mathew, 1970E

Treasurer : Er.Gopalakrishna Pillai.C, 1977E

Jt.Secretary : Er.Salim Narayanan, 1979E

Chief Editor : Dr.Ratnakumar.S, 1978E

Members : Er.Joseph Thomas,1976M, Er. Vimal Prakash, 1982E,
Er.Sreekumar.B, 1985E, Er.Sreekumar.B.Nair, 1987E



Panel discussion on The Mullaperiyar Enigma : A very productive Online Panel discussion was conducted in August on the Mullaperiyar Enigma, a very relevant topic for Kerala.

Er.Surendran Pillai was the moderator and Prof.U.C.Ahmedkutty, Er.Antony Prince, Er.P.O.Samson, Er.Venugopalaln Potty and Er.Karthikeyan were the eminent panelists. Prof. P.O.J.Lebba was the special invitee. All the panelists had first hand experience with the topic and hence the discussion turned out to be effective. Er.Surendran Pillai submitted the final suggestion from the discussion to the concerned authority.

TKM 60 Plus Annual day : Club Millennium TKM 60 Plus celebrated the flagship event of Annual Meet 2024 on Dec 14 th & 15 th at AzeeZia Convention Centre, Kochi and at Nefertity ship cruise with all elegance and grandeur..The motto of the event was Perfect Harmony, Endless Memories.

This year, there was an all time record presence of 170 plus members and their families came from all over India and from UAE, USA & Bahamas. Our great grand event was graced by our most respected Tkm Trust Chairman and Patron of Tkm 60 Plus Janab Shahal Hassan Musaliar, our great MahaGurus - Sanumash and Lebba sir, Dr M. Haroon, College Principal Dr R. Sajeeb and Dr Sudheer..The highlight of the grand event was "Eighty Plus Delight" honouring the members from the first five batches passed out from our college followed by a lot of music fest melodies , dance and sumptuous organic dinner.

A melodious theme music was introduced during the get together. Lyrics were by Er.C.K.Rajendran,1967M, Composed by Er.V.Krishnakumar,1971E, rendered by Sri.Monu Krishna, audio record by Sri.Ajayan and video record by Er.Sreekumar.B.Nair

Second day was dedicated for the dream family cruise through the Arabian Sea carrying the vibrancy & festive mood of 158 members on board..The event helped to keep the spirit of enjoying the shared happiness and joy of 660 Tkm 60 Plus family members covering 26 batches from 1962 to 1987 and gave Life time Good Memories..



Distributing President's Rolling Trophy of Club Millennium TKM60PLUS by the President Dr S Ratnakumar and former President Er.K.Sreekumar to the father of Best Outgoing Student 2023

A Moment of Pride



Beema Jihan
Highest CGPA: 9.95
1st in State Across Branches
1st in Civil Engineering



Aswathy E
CGPA: 9.87
3rd in State Across Branches
2nd in Electronics & Communication Engineering

PARENT TEACHER ASSOCIATION ACTIVITY REPORT FOR THE YEAR 2023-2024

The Parent Teacher Association (PTA) of TKM College of Engineering functions 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 2023-24 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 – 53 international offers

The 2023-24 batch of engineering students at TKM College of Engineering (TKMCE) has set a new benchmark for the institution's placement record. With the placement process now complete for the academic year, a total of 633 job offers have been secured by the graduating class, across 74 companies. This marks a significant achievement for both the students and the college, showcasing the growing demand for TKMCE talent.

Of the 74 companies that participated in the placement process, 7 were international firms, which have collectively extended 53 international job offers to TKMCE students.

Among the key highlights:

- The highest-ever CTC of INR 34 Lakhs per annum was offered to two exceptional students, marking a landmark achievement for the institution.
- 53 students have secured positions with MNCs abroad, with an impressive average salary package of INR 8.01 Lakhs per annum. These international offers represent a growing demand for TKMCE graduates in global markets.
- Out of the total 633 offers, 227 students have received offers with a CTC greater than INR 6 Lakhs, demonstrating the strong industry demand for TKMCE talent across a wide range of sectors.
- Six of our students have received offers from India's one of the leading Navaratna company Bharath Electronics Limited.

The Principal Dr.Sajeeb Said "These placements reflect TKMCE's continued commitment to academic excellence, holistic student development, and fostering strong industry partnerships. The record-breaking placements further reinforce TKMCE's reputation as a top-tier engineering college, preparing its students for success in an increasingly competitive global job market."

A significant number of students gained hands-on experience through internships with leading corporates, with stipends ranging from INR 15,000 to INR 60,000 per month. These internships provided valuable industry exposure and helped students strengthen their skills, making them even more competitive in the job market.

The 2023-24 recruitment process saw major hiring in high-growth sectors, with notable participation in industries like: Data Science, Machine learning, Artificial Intelligence, Data Analytics, Manufacturing, Construction, Marine Services, Banking etc.

Major recruiters like IBM, MuSigma, Amadeus, Analog devices, SADA India, Sobha Realtors-Dubai, Tata Engineering and Automation Limited, TATA ELXSI, TCS, Open Financials, EY, Cognizant, SOTI, ENVESTNET, L & T, MRF, South Indian Bank, Federal Bank, KeyValue, etc. visited our campus and offered a good number of job offers to our students.

Dr. Manu J. Pillai, Associate Professor and Head of the Career Guidance and Placement Unit, shared, "As on date, TKMCE has achieved 633 placements in the campus recruitment process. The engineering streams of Electrical, Civil, and Mechanical have collectively secured more than 50 international placement offers, further underscoring the global demand for our students."

TKMCE-NSS UNITS ACTIVITY REPORT

NSS TKMCE is a prominent community dedicated to shaping the personality and character of student youth through voluntary community service. With two active units, 174 and 262, each consisting of 50 students, it consistently undertakes meaningful volunteering initiatives throughout the academic year.

Our volunteers bring valuable insights to the community through the practical application of their technical knowledge. To streamline their efforts, they are divided into specialized cells and wings, such as the Jeevam 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. These groups regularly organize programs, awareness sessions, and impactful initiatives.

In the month of April 2024, a series of online events were organized, including a Haiku Poem Writing Competition, Who's First Quiz Competition, Vishuchollu (a Vishu-themed picture caption contest), and Lakshyam, a resume-building workshop. These activities fostered creativity, knowledge sharing, and skill development among participants.

"ഐട്ട്" was a heartfelt visit to an old age home where volunteers spent time with residents, sharing joy and fostering companionship.

Jeevam Blood Cell under Rudiresena organized a blood donation camp named Ruhi which had 60 plus donations. These efforts reflect Jeevam's dedication to community welfare.

MATLAB Magic was a two-day workshop that introduced participants to MATLAB's basics and applications, focusing on data analysis, modelling, and simulation through hands-on sessions.

The "Smile Please" Dental Camp in collaboration with dentists from Azeezia Dental College offered free dental checkups, consultations, and guidance on oral hygiene.

The annual seven-day special camp, JWALA, conducted at Government High School Kannanalloor from December 21–27, emphasized "Carbon Neutrality." Volunteers participated in community service and awareness programs, fostering social and civic responsibility.

Bhakhshayati and Ghizayat were key initiatives promoting social welfare. Bhakhshayati involved the monthly distribution of food packets collected from students and staff, while Ghizayat raised funds to distribute 400+ Ramadan kits and Iftar boxes to the needy.

The Chittilappilly KCF KTU Care Bhavananirman Project exemplifies a collaborative spirit, with one house completed and handed over to the family while another house is under construction.

The achievements of NSS TKMCE include receiving the Rudhirasena State Award for the highest blood donations, recognition from Kollam District Hospital for outstanding contributions to blood donation, the APJ KTU NSS Best Volunteer Award (2022-23) presented to Anjana K. Mohan, and Meghanath R's selection for the National Integration Camp in Karnataka 2024.

NSS TKMCE fosters leadership, teamwork, and social responsibility, living its motto, "Not Me, But You," and making a meaningful impact on the community.



THE INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC)

Innovation and Entrepreneurship Development Cell (IEDC) of TKMCE

As part of IEDC-SEEDS 97 initiative, two startup companies are incubated – one is Phiscap Robotics Pvt Ltd works in the domain of automation and the other is VeguarTechnologies Private Limited, which is a medical education based EdTech company.

There are 6 startups registered in IEDC - TKMCE during the year 2024.

The major events conducted by IEDC – TKMCE includes:

1. A 3-day National Level Hackathon named 'HACK4TKM' in Feb 2024, with the theme 'Smart and Sustainable Designs for Agriculture, Food, and Rural Development.' 22 teams of Student innovators from various parts of India participated in the hackathon. This was conducted in connection with Founder's Day 2024.
2. Bootcamp for Innovators, on 3rd Aug 2024, for the innovators and aspiring entrepreneurs of the college.

3. IEDC-SEEDS State Level Workshop, on 8 Aug 2024, conducted with the generous funding from KSUM. This event witnessed the active participation of student entrepreneurs and innovators from various campuses across Kerala state. Sri. Prasanth Nair, IAS, the then Special Secretary to the Government in the Department of Agriculture Development and Farmers' Welfare in Kerala, inaugurated the event. The CEO of KSUM, Sri. Anoop Ambika, moderated the main workshop and interacted with the student entrepreneurs.

Details of other events and activities conducted by IEDC-TKMCE can be viewed in the website: <https://www.iedctkmce.com/events>

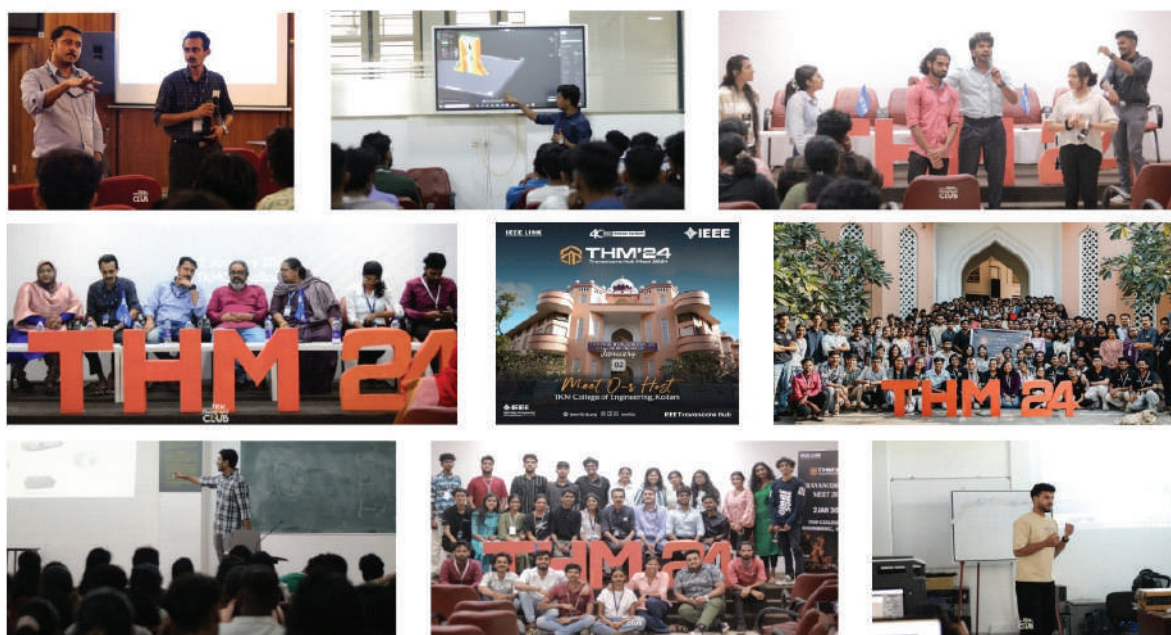
Dr. Sadiq A, Professor in Mechanical Engineering, is the current Dean (industry Connect, Entrepreneurship & Business development) and the Nodal Officer - 1 for IEDC TKMCE. Dr. Kavitha Madhu, Associate Professor in Civil Engineering and Dr. Mohammed Mansoor, Associate Professor in Electrical & Electronics Engineering are the supporting Nodal Officers.

More details on any aspect of IEDC-TKMCE shall be obtained from the Students Leads and CEOs Ms. Malavika A (97781 05881) and Ms. Sooryanjali R (80755 97840), and the Student President of Institute Innovation Cell (IIC) Mr. Rahul Kumar BS (95441 47025).

HISTORIC EVENTS AT IEEE SB TKMCE



Our society was awarded over \$2,000 in various grants for 2024

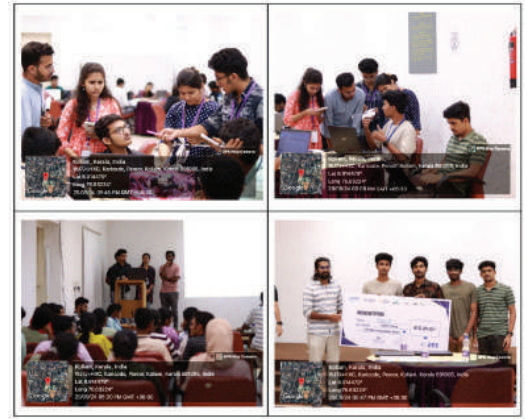


RAASTHA

RAASTHA, a collaborative workshop on coding fundamentals, was organized by STEPS TKMCE and the IEEE Computer Society. Targeted at 11th-grade students, the workshop provided an engaging introduction to programming concepts, inspiring young minds to pursue technology-driven careers.

Travancore Hub Meet

The Travancore Hub Meet, organized annually by the IEEE Travancore Hub, brings together IEEE members, students, and professionals from the southern part of Kerala. The event serves as a platform for knowledge sharing, exchange of ideas, and collaboration, fostering professional growth and community building.



ENCAMP 5.0

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.



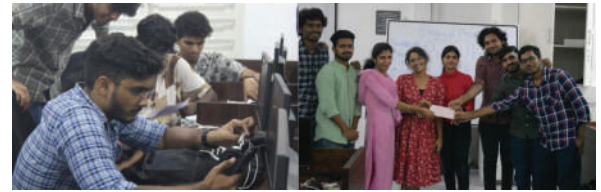
Easy and Lazy Technical Writing



ARise- Rise in the World of Augmented Reality

Hack The Future

IEEE SB TKMCE hosted HackTheFuture, a 24-hour hackathon with the theme "Generative Artificial Intelligence (GenAI)." The event provided participants with an interactive environment to explore the applications of generative AI, encouraging innovation, technical expertise, and teamwork in solving real-world problems. growth and community building.



Relay Coding

During Hestia 24, the annual techno-cultural fest of TKMCE, the IEEE Computer Society organized Relay Coding, a dynamic competition where participants worked in teams to solve programming challenges in a relay format, showcasing their technical prowess and collaborative skills.

SAE TKMCE

SAE TKMCE is the collegiate chapter of the Society of Automotive Engineers at TKM College of Engineering. It provides a platform for students who are passionate about automotive engineering and innovation. The chapter focuses on enhancing technical knowledge, promoting hands-on learning, and fostering creativity in vehicle design and development. It organizes workshops, seminars, technical competitions such as SAE BAJA and SUPRA, industrial visits, and community engagement programs. These activities offer members practical experience and valuable industry exposure. Known for its achievements in national and international competitions, SAE TKMCE helps students develop essential skills like teamwork, project management, and technical expertise. It serves as a stepping stone for successful careers in the automotive and allied industries and contributes to the legacy of TKMCE.

EVENTS

1. STUDENT ORIENTATION PROGRAM

The event aimed to welcome the First Years and introduce them to the vibrant community of engineers. Students were encouraged to join the club to gain hands-on experience in building and designing vehicles.

2. NATIONAL LEVEL COMPETITION ON COMPUTATIONAL FLUID DYNAMICS (CFD) USING ANSYS FLUENT

NLCCFD, organized by SAEISS, is a nationwide Computational Fluid Dynamics event with the goal of tackling practical fluid flow issues for engineering students. This competition attracted participation from approximately 12 colleges across the nation, and TKMCE proudly secured the 2nd position.

3. SPOX - BYCYCLE DESIGN COMPETITION

The design target is to design a manually propelled Road Bike that is capable of carrying an average human being.

and we have secured all India 16th rank and all Kerala 4th rank.

4. ELECTRIC TWO WHEELER DESIGN

Team Vegha, embarked on their journey to participate in the SAE ETWDC Competition for the first time. Despite their lack of prior experience, they secured the Third Place in the competition for their innovative approaches to both innovation and 3D modeling.

6. EUREKA IDEATION PROGRAM

SAE hosted a dynamic brainstorming event aimed at fostering innovation and catalyzing change. The event provided a platform for participants to challenge conventional wisdom, push boundaries, and unlock the potential for ground-breaking solutions.

7. TIER EVENTS

SAE TKMCE organized an exhilarating series of Tier Events aimed at testing participants' technical prowess and fostering overall development. These events encompassed a diverse range of disciplines, ensuring inclusivity and engagement across various fields of interest.

8. INSTA QUIZ

'Automotive quiz' was conducted by SAE TKMCE for the enthusiastic quizzers from various colleges of Kerala. The quiz was usually held on Sundays and Mondays through the official Instagram page of SAE TKMCE.

9. ANSYS FLUENT FUNDAMENTALS

The SAE TKMCE workshop on "Ansys Fluent Fundamentals: A Short Dive into Fluid Flow Analysis" was conducted successfully, providing participants with a comprehensive understanding of fluid dynamics principles and hands-on experience with Ansys Fluent software. The workshop spanned 40 hours and covered various aspects of fluid flow analysis, including problem-solving techniques, geometry generation using Design Modeler, Meshing in both 2D and 3D, and an introduction to commercial CFD tools.

10. MAGAZINE

Tesseract II is a technical journal focused on innovations and breakthroughs in the automotive industry. The second issue aimed to continue the tradition of providing readers with insightful and engaging content related to the future of mobility.



DEPARTMENT OF CIVIL ENGINEERING

Programmes Organised



1. Organised 7th International Conference on Modeling and Simulation in Civil Engineering (ICMSC 2024) on Dec 5 - 7, 2024

The 7th International Conference on Modeling and Simulation in Civil Engineering (ICMSC 2024) was held from 5th to 7th Dec, 2024 in a hybrid mode at TKM College of Engineering Kollam. The conference was inaugurated by Dr. Chian Siau Chen, Darren, Vice Dean of the College of Design and Engineering at the National University of Singapore. Dr. Chian is also the Director of the Centre for Soft Ground Engineering and an Associate Professor at the Department of Civil and Environmental Engineering at the university. The conference had 14 keynote sessions in the various domains of civil engineering. A total of 103 papers were presented in the various technical

sessions. The main theme was 'Focusing on global partnership for sustainable development and circular economy through technology, infrastructure and research. The sub-themes were aligned with the Sustainable Development Goals - SDGs of the United Nations.

2. Online panel discussion on "An initiative to find solutions for waste management in Kollam Corporation" was held as part of ICMSC. The panel members included Muhammed Huwaiz, Joint Director, LSGD WM Cell; Smt. Kavitha, Director LWM, Suchitwa Mission; Dr. Brajesh Kumar Dubey, Professor, IIT Kharagpur; Sreerag Kuruvat, Senior operations manager, Green worms waste management; Priyanka Singh, Member of council for Energy, Environment and Water; Dr. Rajesh K, Senior Urban Fellow KILA; Smt. Beena, Superintending Engineer, Kollam Corporation, Dr. Annie John, Former HOD, Department of Architecture, TKM College of Engineering; Dr. Adarsh S, Professor and Deputy HOD, Department of Civil Engineering, TKM College of Engineering and Dr. Amal Azad Sahib, Associate Professor, TKM College of Engineering, Kollam.

3.



A Pre-conference workshop on Strategies for Effective Recycling & Waste Management Practices was conducted by Dr. Brajesh Kumar Dubey, Professor, Division of Environmental Engineering and Management, IIT Kharagpur.



Poster Design Challenge was organised by Civil Engineering Department on the theme 'Sustainable Future Through Waste Management' as part of ICMSC.

5. A workshop on Current Trends in Construction industry and Mix Design was conducted by Kevin K Charly, Manager, Technical Services, The Ramco Cements Limited.

6. A talk session on 'Introduction to Building Rules' was given by Prof. Nizar S A, Professor, Department of Architecture, TKM College of Engineering.

7. A Seminar on LIDAR Technology was given by V Institute of Advance Studies.

8. A talk session on 'Quantifying River Regime Alterations' was conducted by Dr. Ali Torabi Haghighi, Associate Professor, Leader Hydr osystems Engineering and Management Research Group at University of Oulu, Finland.

9.



A 5 day training Program on Disaster Risk Reduction under Changing Climate was conducted by the Department of Civil Engineering From 1st to 6th February, 2024. The coordinators of the program were Dr. Adarsh S and Dr. Muhammed Siddik A.

10.



Department of Civil Engineering organised DST-SERB sponsored Scientific Social Responsibility (SSR) WORKSHOP on Non-stationary Hydrological Extremes under Changing Climate on 30 & 31 January 2024

11. A talk on Hydrodynamic and morphodynamic studies in estuaries was conducted by Dr. Gubash Azhikodan, Tokyo Metropolitan University, Japan on 1st March, 2024.

Faculty Publications & Patents

1. Rasheed, R. M., Moghal, A. A. B., Basha, B. M., Almajed, A. (2024). Target Reliability-Based Design Optimization Studies on Cohesive Soil amended with Chitosan and Casein for Liner Applications. *Nature Scientific Reports. Sci Rep* 14, 14202 (2024). <https://doi.org/10.1038/s41598-024-64408-7>

2. Rasheed, R. M. and Moghal, A. A. B. (2024). Efficacy of Crustacean and Protein-based Biopolymer Inclusion on the Strength Characteristics of Organic Soil. *International Journal of Geomechanics*. 24(11), <https://doi.org/10.1061/IJGNALGMENG-10012>

3. Nair, A.G.R, Adarsh, S., Meera, G. M., and Sreedevi, V.: Developing Non Stationary Frequency Relationships for Greater Pamba River basin, Kerala India incorporating

dominant climatic precursors, *Proceedings of IAHS Vol.385, Proc. IAHS, 385, 163–173, 2024* <https://doi.org/10.5194/pi-ahs-385-163-2024>

4. Suresh, A.P., Thomas, C., Ajith, A.K., Amalenth, A.V., Sankaran, A. (2024). Analysis of Rainfall Using Family of Innovative Trend Methods for Climate Change Detection. In: Patel, D., Kim, B., Han, D. (eds) *Innovation in Smart and Sustainable Infrastructure*. ISSI 2022. Lecture Notes in Civil Engineering, vol 364. Springer, Singapore. https://doi.org/10.1007/978-981-99-3557-4_34, pp 455–467

5. Adarsh S et al. (2024) Indian landslide tragedy demands a rethink of hazard mapping in a changing climate (*nature.com*). *Nature* 632, 985 (2024) doi: <https://doi.org/10.1038/d41586-024-02752-4>

6. Arathy Nair GR, Adarsh S, FM Arriola (2024) Introducing a climate, demographics, and infrastructure multi-module workflow for projected flood risk mapping in the greater Pamba River Basin, Kerala, India " *International Journal of Disaster Risk Reduction* (Accepted; IJDRR_104780)

7. Shamla DS et al. (2024) A Non-stationary Framework for Landslide Hazard Assessment under the Extreme Rainfall Condition", *Earth Systems and Environment*. ESEV-D-24-00168R2

8. Adarsh Sankaran, Thomas Plocoste, Aiswarya Rajakrishnan, Rahsha Cheeran Thodika, Resmi Anilkumar Rema, Sona Dharman, Mamatha Madhukumar, Multiscale coherence analysis of PM2.5 and PM10 concentrations of four Indian urban areas using wavelet transform, *Urban Climate*, 56, 2024, <https://doi.org/10.1016/j.uclim.2024.102056>

9. G.R. Arathy Nair, S. Adarsh, Ahmed El-Shafie, Ali Najah Ahmed. (2024) Enhancing Hydrological Data Completeness: A Performance

Evaluation of various Machine Learning Techniques using Probabilistic Fusion Imputer with Neural Networks for Streamflow Data Reconstruction. *Journal of Hydrology* HYDROL58920 (Accepted)

10. Arheimer B et al. (2024) Article: The IAHS Science for Solutions decade, with Hydrology Engaging Local People IN a Global world (HELPING) *Hydrological Sciences Journal (THSJ)* Article ID: THSJ 2355202, <https://doi.org/10.1080/02626667.2024.2355202>

11. Sankaran, A.; Plocoste, T.; Geetha Raveendran Nair, A.N.; Mohan, M.G. Unravelling the Fractal Complexity of Temperature Datasets across Indian Mainland. *Fractal Fract.* 2024, 8, 241. <https://doi.org/10.3390/fractalfract8040241>

12. Vahid Nourani, Amirreza Ghaffari, Nazanin Behfar, Ehsan Foroumandi, Ali Zeinali, Chang-Qing Ke, Adarsh Sankaran, Spatiotemporal assessment of groundwater quality and quantity using geostatistical and ensemble artificial intelligence tools, *Journal of Environmental Management*, 355, 2024, 120495, <https://doi.org/10.1016/j.jenvman.2024.120495>

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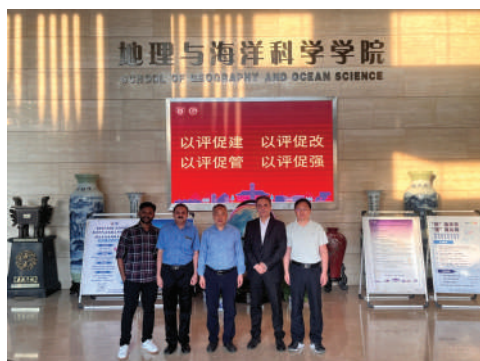
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Faculty and Staff Achievements

1.



Dr. Adarsh S, Professor, completed the project 'The monitoring of changes in glacial lakes in Western Asia supported by remote sensing big data and artificial intelligence (NTU Diploma No. DL2021140 001L)'. He visited School of Geography and Ocean Science, Nanjing University, China and delivered a talk on 'Non Stationary Frequency Analysis of Hydrologic Extremes' in the Belt and Road Workshop on Water resources in May 2024.

2.



Dr. Priya K. L., Associate Professor, is selected for Charles Boyden award of Estuarine and Coastal Sciences Association, UK, for undertaking research on the settling of microplastics in partially-mixed estuarine environment.

3 Dr. Ramaswamy K. P., Dr. Sajeeb R. and, Chinnu Mariam Ninan presented a work in the prestigious 78th RILEM week conference.

4 Dr. Ramaswamy K P chaired a session in the 5th International Conference on Structural Engineering and Construction Management (SECON'24) held during 05-07 June 2024 organised by Department of Civil Engineering, Federal Institute of Science and Technology (FISAT), Ernakulam, Kerala, India in collaboration with the ICI - Kochi Chapter, IEI - Kochi Local Centre, IGBC - Student Chapter, ISTE FISAT Chapter, and BAI - Angamaly Centre.

5 Dr. Ramaswamy K P chaired a session in the 7th International Conference on Modeling and Simulation in Civil Engineering (ICMSC 2024),

Organised by Department of Civil Engineering, TKM College of Engineering, Kollam during 5-7 December 2024.

6 Dr. Ramaswamy K P participated in the One Week National level Online Faculty Development Program on Digital Pedagogy: ICT & AI assisted teaching in-line with OBE & NEP organised by the Internal Quality Assurance Cell (IQAC) of St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy in association with The Kerala State Higher Education Council (KSHEC) from 29 May 2024 to 05 June 2024 and has successfully completed all the assessments and secured an A grade.

7 Dr. Ramaswamy K P attended two weeks Professional Development Program (PDP) on "Instructional Design and Delivery Systems" conducted by National Institute of Technical Teachers Training and Research, Chennai (NITTTR) from 03.06.2024 to 14.06.2024 (Notional learning Hours – 60) at NITTTR Extension Centre, Kalamassery duly sponsored by Organisation.

8 Dr. Ramaswamy K P attended one week Professional Development Program (PDP) on "Quality Assurance through NAAC Accreditation Process" conducted by National Institute of Technical Teachers Training and Research, Chennai (NITTTR) from 01.07.2024 to 05.07.2024 (Notional learning Hours – 30) at NITTTR Extension Centre, Kalamassery duly sponsored by Organisation.

9 Dr. Ramaswamy K. P., Professor in Civil Engineering, TKM College of Engineering, Kollam has delivered an invited talk on "Kerala Institutional Ranking Framework (KIRF) 2024: Analysis and The way forward" for the faculty of TKM Institute of Tech-

nology, Karuvilil, Kollam on December 31, 2024.



10 Dr. Anu V. Thomas and Prof. Hazeena R. attended the Lean Manufacturing Practices (LMP) Conclave organized by the Mizuho India Japan Study Center at the Indian Institute of Management, Bangalore (IIMB) from November 15-17, 2024.



11.



Dr. Sajeeb R., Dr. Ramaswamy K. P., and Chinnu Mariam Ninan, Research Scholar, published a patent for the invention 'Accelerated Acid Abrasion Resistance Test Apparatus'.

12 Dr. Ali Mubarak C. delivered a talk as a resource person on the topic "Rail track bridge interaction" for short term training programme (STTP) "Advances and Challenges in Structural Steel Design" conducted by Department of Civil Engineering, KLS Gogte Institute of Technology, Udyambag, Belagavi, Karnataka on

(10.12.2024)

13 Dr. Sajeeb R., Professor, is appointed as the Principal in charge.

14 Dr. Priya K. L., Associate Professor, is appointed as Dean Research.

15 Dr. Ramaswamy K. P., Professor, is appointed as the coordinator for the Centre for Quality Assurance and Ranking (CQAR).

16 Prof. Bushra M A completed the AICTE QIP PG Certificate Programme on 3D Printing from IIT Palakkad.

17 Dr. Romana Mariyam Rasheed has been awarded Ph.D on 'Geotechnical Behavioural Studies on Low Organic Soil treated with Chitosan Casein Biopolymers' from NIT Warangal.

18 Prof. Althaf M., has successfully defended his thesis titled Deep Learning-based Predictive Models for the Stress Concentration Factor of Offshore Tubular Joints under the guidance of Prof. Yogesh M. Desai at IIT Bombay.

19 Dr. Priya K L was the resource person for the Faculty Development Programme on "Recent Trends in Green Energy Engineering" Department of Mechanical Engineering, College of Engineering Perumon, Kerala, India, 18.12.2024

20 Dr. Priya K L gave an invited speech on "Environmental impacts of cage farming and pathways to sustainability" ANRF and BRNS funded International Seminar on Air, Water and Sediments regime and its impacts on climate change – A sustainable development goal, V.O. Chidambaram College, Thoothukudi, Tamil Nadu, India, 5.11.2024

21 Dr. Priya K L gave a keynote speech on "Microplastics in aquatic bodies: Assessing the role of human interventions" The 7th International Symposium on Water Pollution and Treatment ISWPT 2024, Bangkok, Thailand, 16.10.2024

22 Dr. Priya K L was the resource person for the National Seminar on "Advancing Agriculture through Integrated Water Resources Management and Precision Farming Technologies" and delivered lecture on "Cage farming practices and their environmental implications in aquatic bodies", Department of Civil Engineering, Baselios Mathews II College of Engineering, Sasthamcotta, 10.9.2024

23 Dr. Priya K L delivered a talk on "Navigation from project execution to effective presentation", College of Engineering, Pathanapuram, 26.07.2024

Webinar on "Water for Peace: Role of water quality management strategies", National Thermal Power Corporation, Govt of India on the Occasion World Water Day 2024, 19th March 2024

24 Dr. Priya K L delivered a talk on "Water for Peace: Role of water quality management strategies", National Thermal Power Corporation, Govt of India on the Occasion World Water Day 2024, 19th March 2024

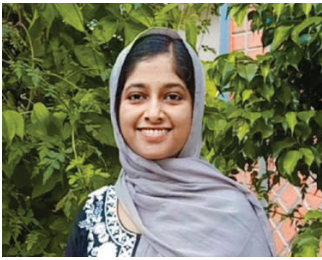
25 Dr. Priya K L chaired a session on Estuarine Hydrodynamics and Morphodynamics - Laboratory Experiments, Field Observations, Remote Sensing, and Numerical Modelling in collaboration with Tokyo Metropolitan University Japan organized by Asia Oceania Geosciences Society South Korea 23 to 28 June 2024

26 Dr. Anu V Thomas chaired a session in SECON'24 held during June 05-07, 2024, organized by the Department of Civil Engineering, Federal Institute of Science And Technology (FISAT), Ernakulam, Kerala, India, in collaboration with the ICI - Kochi Chapter, IEI - Kochi Local Centre,

IGBC - Student Chapter, ISTE FISAT Chapter, and BAI - Angamaly Centre

Student achievements

1



Beema Jihan (2020-2024 batch) secured the first position among all B. Tech Streams under APJAKTU with a CGPA of 9.97.

2.



Ms. Chinnu Mariam Ninan doing her research under the supervision of Dr. Sajeeb R and Dr. Ramaswamy K. P. presented a work in the prestigious 78th RILEM week conference. Chinnu Mariam Ninan was awarded a travel grant by RILEM.

Chinnu Mariam Ninan visited INSA Toulouse France and presented paper in international conference with a travel grant worth approximately 2 lakhs.

3 Aiswarya B of sixth semester secured third prize for discus throw (Women) in the 6th Intercollegiate Athletic Meet.

4 Donyi Sonam of sixth semester secured fourth prize in Vidyut Cup (Basketball) competition as part of National Level Multi-fest Vidyut'24.

5



Ms. Shamla DS doing her research under the supervision of Dr. Adarsh S. has won the prestigious WISE –Kiran Ph.D fellowship

6



7 UG Students of 2021-25 batch presented papers in EGU 2024.

The student groups completed short term research internships at University of Oulu, Finland, Potsdam Institute for Climate Impact Research Potsdam, Germany & Institute of Agrophysics Lublin, Poland

7



Anju of first year civil engineering department of TKMCE is selected to APJ Abdul kalam technological University chess women team for the inter University chess Championship 2024-25

Alumni Achievements

1 TKMCE 91 Civil batch alumna Eng. Srikala.S has been appointed as the Chairperson of Kerala State Pollution Control Board on January

2 TKMCE 1981 Civil alumnus, Professor P.A Muhammed Basheer's Investiture for the Commander of the Order of the British Empire (CBE) was held at Windsor Castle on Tuesday, 6th of February. Her Royal Highness, Princess Anne

handed over the CBE medal to Basheer.



3 Dr. Sujatha Manoj, from TKM Civil 1991 batch, who is nominated by Engineer's 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.

4 Alumnus JJ Jalal [1989 Civil] has been recognized by UNICEF & Stanford University for his outstanding contributions to humanity.

5 TKM College of Engineering alumni of 2018 batch Asif Ayoob, Ashik Azad, and Gokul Mohan, Bhailog App: A Game Changer for Migrant Workers, Founded in 2023 is the first of its kind, incubated and mentored by KSUM.

Kerala Chief Minister Pinarayi Vijayan launched Bhailog App, India's first exclusive app designed to revolutionize the job market for blue-collar migrant workers. The launch event, attended by Dr. S Karthikeyan IAS, Officer on Special Duty to the Chief Minister, and Mr. Anoop Ambika, CEO of Kerala Startup Mission (KSUM), marked a significant milestone in the startup ecosystem of Kerala on 4 September.

The App aims to assist millions of laborers in finding daily

jobs and empower them by offering a user-friendly platform to connect with job opportunities. The app, which will be available on the Play Store after the closed beta is completed, uses advanced algorithms for real-time job updates and a seamless wage payment system.

6 Dr. L. Gouri Mohan (2001 Civil Engg batch) has taken charge as the Principal of TKM Institute of Technology Karuvelil on 6 September. She completed her MTech in structural engg and construction management from TKM in 2009 and took PhD from University of Kerala in 2023.

7 Sinimol Noushad (1997 Civil batch) received the Golden Achievement Award Dubai 2024.(Founder & Chairwomen – Unique Project Solutions Dubai) on 25 November.

8 Asif Ayoob (2018 Civil batch) was appointed as special advisor to the General Secretary of Intergovernmental Institution for the Use of Microalgae Spirulina Against Malnutrition (IIMSAM) on 27 November.

9 BEEMA JIHAN secured the First position in APJAKTU among all branches selected for Alumni Proficiency award for Best student considering curricular & extracurricular activities (passed out batch)

(One student from 2020-2024 batch)



Merit Evening Awards

1 BEEMA JIHAN received Merit Certificate for student secured maximum marks in (B.Tech. / B.Arch. / MCA) (One student from 2020-2024 batch)

2 AKSHARA SURESH received Prof. N. I. Stephen Gold Medal for Student secured highest mark in all mathematics papers put together (present final year batch, i.e. 2021-2025 batch)

3 NISWANIDHA received Prof. P.A. Abraham Cash prize secured maximum mark in Engineering Graphics in the first appearance including sessional marks (from present 3rd semester, i.e. 2023-2027 batch)

4 BEEMA JIHAN received Dr. Ziaudeen Memorial Gold Medal secured maximum mark from all the outgoing students (topper from passed out batch)

5 BEEMA JIHAN received Dr. Thaj Memorial Award for Excellence secured maximum mark from all the outgoing students. (One student from 2020-2024 batch)

6 BEEMA JIHAN received Najmal Hussain memorial Gold Medal secured Highest mark in the subject of Architecture & town planning renamed as Habitat engineering in V semester. (One student from 2020-2024 batch)

7 BEEMA JIHAN received Sri. P. P. Nair Gold Medal secured as the Topper of Civil Engineering Branch. (One student from 2020-2024 batch)

8 BEEMA JIHAN received Swaroop Kumar Memorial Gold Medal secured as the Topper of Civil Engineering Branch. (One student from 2020-2024 batch)

9 AKSHARA SURESH received Prof. Sam Robert Nayagom Memorial Gold Medal secured Highest mark in Structural Engineering all the papers put together (present final year batch, i.e. 2021-2025 batch)

10 BEEMA JIHAN received Prof .U.C. Ahammad Kutty Cash Prize secured as the Topper of Civil Engineering Branch. (One student from 2020-2024 batch)

11 FATHIMA FAZAL received Capt Vijaya Kumar Memorial cash prize secured Second best student of Civil Engg (second topper from passed out batch) (One student from 2020-2024 batch)

12 APARNA DEVI V M received Sri Rajeev Memorial Cash Prize secured highest mark in the university Exam up to IV th semester in Civil Engineering Department (from present 7th semester, i.e. 2021-2025 Batch)

13 BEEMA JIHAN received Prof. E.V. Namboodiri Cash Prize secured the highest total marks in the subjects

i) programming & numerical methods VI th semester and

ii) computer methods for structural analysis (VII th semester) put together in first chance

(One student from 2020-2024 batch)

14 BEEMA JIHAN received Sri. Russel Raveendran Memorial Cash Prize secured as the Civil Engineering Topper from pass out

(One student from 2020-2024 batch)

20 ALFIYA S, AMINA BIJU received Sri. Sudheer R Memorial Cash Prize secured Merit cum means from civil engineering Department (Currently final year student taken, i.e. 2021-2025 batch)

21 NISWANIDHA, NAISHANA N received Sri. Thankappan Nair memorial Endowment for Civil Engineering Department students based on merit cum means (II Year-2023-2027 batch)

22 SANA BASHEER, ATHIRA MUKESH received Sri. Thankappan Nair memorial Endowment for Civil Engineering students based on merit cum means (III Year-2022-2026 batch)

23 ALFIYA S, AMINA BIJU received Sri. Thankappan Nair memorial Endowment for Civil Engineering

students based on merit cum means (IV Year-2021-2025 batch)

24 HANNAH PM, BALAMANI R H of S1&S2 received Prizes introduced by Alumni & PTA for Highest mark, first appearance (2 students each from all semesters)

S1-S2 (2023-2027 Batch)

S3-S4 (2022-2026 Batch)

S5-S6 (2021-2025 Batch)

25 ANNAT MARIA ANTONY, ATHIRA MUKESH of S3&S4 received Prizes introduced by Alumni & PTA for Highest mark, first appearance (2 students each from all semesters)

S1-S2 (2023-2027 Batch)

S3-S4 (2022-2026 Batch)

S5-S6 (2021-2025 Batch)

26 AKSHARA SURESH, APARNA DEVI V M of S5&S6 received Prizes introduced by Alumni & PTA for Highest mark, first appearance (2 students each from all semesters)

S1-S2 (2023-2027 Batch)

S3-S4 (2022-2026 Batch)

S5-S6 (2021-2025 Batch)

27 BEEMA JIHAN received Prof M Sree Kumaran Memorial Award secured the student who secures max mark in Design of Structures (2 papers - RCC design & Steel Design) will be selected for the award.

28 NAVEENA G S received Govind Ramadas Memorial Award secured as the topper in M.Tech – Structural Engineering and Construction Management

(One student each from 2022-2024 batch)

ELECTRONICS AND COMMUNICATION

Retired Staff

Dr. T A Shahul Hammed, Principal
Prof. Abid Hussain M A, Associate Professor

Prof. Preetha Basu, Associate Professor

MoUs Signed

MoUs signed with following academic institutions/Industry

- Curve Logics Advanced Technology Solutions Pvt. Ltd.
- Tata Elxsi Ltd.
- HR Universal Systems Inc.

Programmes Organised

- Department of ECE Organized ATAL FDP on 5G Communication Networks: Key Enabling Technology from November 18-23, 2024
- Coordinator: Dr. Nishanth N and Co-coordinator: Prof. Ganeshnath R
- Organized an Internship Program on Optical Communication Using Optisystem: From Fundamental to Advanced Applications in association with HR Universal Systems during June 5 to July 19, 2024
- LUMIERE 24- Project Expo organized by the department
- Certificate course on Verilog HDL in collaboration with IEEE CASS

Faculty Publications

1 DR. SHAHUL HAMEED T A, Prof. Vishnu D

Metasurface frequency reconfigurable antenna optimizes using neural network algorithm for wireless applications Frequenz SCI

2 Sajeena A, Vishnu D

Integrated Vehicle Health Management System: Matlab Simulink International Research Journal on Advanced Science Hub Other

3 Anu Assis, Sajeena A, Vishnu D
Launch Vehicle Integrated Health Management System Model

International Research Journal on Advanced Science Hub Other

4 RESHNA S

Segmentation and Classification of Hand Gestures for Indian Sign Language with YCbCr and HSV Color

Models with Dissimilar Signers Under Different Lighting Conditions using AlexNet

Journal of Image Processing and Pattern Recognition Progress Other
5 Saniya Azeem Examining parametric analysis and mitigation approaches for minimizing four-wave mixing effects in radio-over-fiber systems: a critical review" Journal of optics SCI

6 Dr. Anzar S M A new frontier in hematology: Robust deep learning ensembles for white blood cell classification Biomedical Signal Processing and Control SCI

7 Dr. Anzar S M The robust Smart Ensemble Net: A game changer in finger knuckle biometrics Expert Systems with Applications SCI

Faculty and Staff Achievements

- Dr. Nissan Kunju and team at Biomedical Engineering Research Lab developed an Arrhythmia detection chip.

- Prof. Reshna S attended 2024 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2024), Seoul, Korea and received the award for the IEEE Signal Processing Society (SPS) Chapter of the year award for Kerala SPS chapter

- Dr. Nissan Kunju received Prof. Bharat S Rawal Research Promotional Award for the paper presented at 2nd International Conference on Microwave, Antenna and Communication (MAC 2024) organized by DRDO and IIT Roorkee

- Dr. Anzar S M attended IEEE TALE a flagship conference of IEEE Education Society at Bengaluru and presented three papers

- Dr. Arun A V awarded as the Young Professional of the year by

Students Achievements

- Bhadra J R (2022-2026) successfully completed NXP Semiconductors women in tech program
- Dixon Mathews, Bhadra J R, Neeta Sara Reji & Devanandan H (2022-2026) got their project proposal selected for Analog Devices Anveshan 2024
- Aditya A, Ashwin Prasad, Beema S, Jais Jomy & Haroshin K (2021-2025) got their project proposal selected for Analog Devices Anveshan 2024
- Sreegouri G Unnithan (2024-2028) was awarded Ujjwala Balam award from Govt. of Kerala
- Team Drona led by Derin Antony (2021-2025) secured All India Rank 1 in best innovation award
- Samju Jayalekshmi (M.Tech 2022-2024) received Prof. Bharat S Rawal Research Promotional Award for the paper presented at 2nd International Conference on Microwave, Antenna and Communication (MAC 2024) organized by DRDO and IIT Roorkee

Rank Holders



2020-2024 ECE Batch- Aswathy E secured second rank in ECE branch, KTU and third rank in KTU 2024 batch, considering all branches put together



2020-2024 ECE Batch- Kezia Susan Mathew secured third rank in ECE branch, KTU.

ELECTRICAL AND ELECTRONICS ENGINEERING

Retired Staff



B SHAJAHAN (Trade Instructor Gr I)

MoUs Signed

- 1 MoU between DigiTod Technologies Private Limited and department of EEE signed on 27/03/2024.
- 2 MoU between INQBE INNOVATIONS PRIVATE LIMITED and Department of EEE for industry Academy Collaboration Program signed on 14-10-24
- 3 MoU between BPM Power Pvt limited and department of EEE signed on 3/10/2024.
- 4 MoU was entered into by and between Department of EEE and PhiScape Robotics pvt ltd Kollam on 27/05/2024
- 5 MoU between KERALA ELECTRICALS AND ALLIED ENGINEERING COMPANY LTD., Kundara, and department of EEE signed on 13/12/2024

Programmes Organised

FDP ORGANISED

Prof. Shanavas TN, Dr. Ansal V, and Dr. Asif Abdullah organized an FDP in hybrid mode from December 2 to

December 7, 2024, on Electric Vehicles: Current Trends and Future Prospects.

Faculty Publications

JOURNALS

1. Sabeena Beevi, S Abhishek, L Mahima, NR CG, M Parvati, PB Adithyan, S Sonu "Optimal estimation of SoC, SoH using machine learning models and design of control algorithm for active cell balancing in lithium ion batteries" Engineering Research Express, 2024
2. Shyba Zaheer, Ahmed Jazim R, Ajay Krishna, Amal Surendran, Diya Sreedeeepam "Design and Implementation of a Real-Time Health Monitoring System for Lithium-Ion Batteries"- Journal of Electrical System, J. Electrical Systems 20-10s (2024): 6078-6086
3. Jayaraj, Saritha, TP Imthias Ahamed, Mathew P. Abraham, E. A. Jasmin, and Sheik Mohammed Sulthan. "Reinforcement learning for energy management of an islanded microgrid: Analysis of state, state space and reinforcement function." Sustainable Energy, Grids and Networks 38 (2024): 101362.
4. Sabeena Beevi, , Adith Ramesh, Gokul Das, Sanjay P. Girish, and Pierluigi Siano. "Comparative assessment of fault detection methods in transmission line during power swing: analyzing single and hybrid networks for the southern Kerala grid." Engineering Research Express 6, no. 2 (2024): 025305.
5. Sabeena Beevi. K ,BA Akhila N. S, "Deep Learning-Based Anomaly Detection of ECG Signals for Telemedicine Applications" International Journal of Engineering Trends and Technology 72 (2), 163-177
6. Sabeena Beevi. K ,AR Shihabuddin "Efficient mitosis detection: leveraging pre-trained faster R-CNN and

cell-level classification" Bio medical Physics & Engineering Express 10 (2), 025031

7. Shyba Zaheer , Imthias Ahamed T.P. , Tauseef Gulrez and Zoheb Zaheer" Eigenspace Based Online Path Planner for Autonomous Mobile Robots" Statistics and Applications {ISSN 2454-7395 (online)} Volume 22, No. 1, 2024 (New Series), pp 57-71

8. SOFIYA, S., K. M. MUHAMMED SHAFY, and SHELAS SATHYAN. "Comparative analysis of modulation schemes for multilevel half-bridge bidirectional DC-DC converter in microgrid applications." Sādhanā 49, no. 2 (2024): 176.b

9. Gopikadev Y.,Farsana Muhammed," A Critique of Advanced Instrumentation for Supervising and Regulating Renewable Energy Systems" STM Journals 2024 Volume :14 Issue : 01 ,Page : 1-12

10. Farsana Muhammed,Saifuniza S," Neuro-Fuzzy Control Systems: A Cross-Domain Review STM Journals "Year : 2024 Volume :02 Issue : 01 Page : 29-38

11. Farsana Muhammed, Muhammed, Jubairiyath beevi A "A Review on Electro Cardio Graph a New Approach" STM Journals , Year : 2024 ,Volume :11 , Issue : 01 ,Page : 1-13

CONFERENCE PUBLICATIONS

1. A. Kunjumon, C. Jacob and R. Resmi, "An Efficient U-Net based Model for Low Grade Glioma Segmentation in MRI Images," 2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICE-TITE), Vellore, India, 2024, pp. 1-5, doi: 10.1109/ic-ETITE 58242.2024.10493347.

2. Shaleena Manafuddin, , Mabel

Ebenezer, and Bisharathu Beevi. "Demand Side Management in Power Grids through Particle Swarm Optimization Algorithm." 2024 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE). IEEE, 2024.

PATENTS

1. Shaleena Manafuddin filed patent for "Rotating type solar Dehydrator for linen yarn cone"

Faculty and Staff Achievements

1 Dr.Bijuna Kunju K Professor,Department of EE has been selected for the IEE MGA Outstanding Branch Counselor Award and Branch Chapter Advisor Award 2024.

2 Dr. Sofiya S,Assistant Professor, Department of EE received Ph.D from NIT, Tiruchirappalli on Design of Three port isolated converters and its analysis with various modulation techniques for DC Micro grid Applications in the year 2024.

3 Dr. Resmi R awarded best paper for the paper," A Review on history and applications of Kalman Filter" in the fifth national Conference on future technologies in Power, Control and Communication Systems.

Students Achivements

1 30 Students of (2020-2024) batch placed in L&T

2 6 Students of 2020-24 batch placed in Schneider Electricals

3 Kasyap R Narayan (2020-24 batch) got the Build India Scholarship provided by L&T for higher studies in NIT Surathkal

4 Anjala Santhosh Parveen (2020 -24batch) got admission in IIM Raipur

5 Mehna Farooque,third year EEE student secured bronze medal in kollam district Athletic meet 100 meter woman.

6 Karthik R Prasad, third year EEE student secured bronze medal in kollam district Athletic meet hammer throw men.

Alumni Achievements

1



Arjun Pandian ,IAS(2012 batch EE) has been appointed as the new District Collector of Thrissur.

2



Adarsh G (2018 batch EE) selected to the prestigious Indian Forest Service with an All India Rank 8.

3. B.Pradeep (batch of 1987) appointed as the Technical member of Kerala State Electricity Regulatory Commission.

4. Dr. Krishna Kumar of the 1997 EEE batch played a major role in the development and implementation of remote operation of stand-alone RMUs for KSEB.

റിമോട്ട് ഓപ്പറേറ്റിങ് സംവിധാനം ഒരുക്കിയ കെഎസ്ഇബി എൻജിനീയർമാർ ആദരം

 രണ്ടാമത് ലോകമെമ്പാടുമുള്ള ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്. കെ.എസ്.ഇ.ബി.യുടെ ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്.	 രണ്ടാമത് ലോകമെമ്പാടുമുള്ള ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്. കെ.എസ്.ഇ.ബി.യുടെ ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്.	 രണ്ടാമത് ലോകമെമ്പാടുമുള്ള ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്. കെ.എസ്.ഇ.ബി.യുടെ ഏറ്റവും മികച്ച എൻജിനീയർമാർക്ക് അർപ്പിക്കപ്പെട്ട പുരസ്കാരമാണ് ഇത്.
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Merit Evening Awards

1 Anirudh Krisna Kumar got Prof..N K Rajagopalan memorial gold medal and cash award , for the category of college topper from B Tech in EEE. (2020-2024batch).

2 Devika Suresh got Dr.T S Suresh kumar memorial gold medal, for the category of second college topper

from B Tech in EEE. (2020-2024 batch).

3 Vismaya Mariyam Vinod ,got Alumni Proficiency award (2020-2024batch)

4 Fathima M, college topper from M Tech in Power systems (2022-2024 Batch).

5 Ansiya A, college topper from M Tech in IIC (2022-2024 Batch).

Additional Information

M.Tech. course in “Electric Vehicle Technology” started in the year 2024

MECHANICAL ENGINEERING

Retirements

1. Dr. Shajahan C. A.
Professor
2. Sri. Jayakumar K
Workshop Superintendent
3. Sri. Asharaf E
Trade Instructor Sr. Gr
4. Sri. Sulaiman Kunju J.
Tradesman (HG)
5. Sri. Rizwan Ahamed A
Trade Instructor Gr I

MoUs Signed

1. Dubai Dry Docks, Dubai, 21/03/2024, Training & Placement
2. Al Jedayel Technical Services L.L.C., Dubai, 15/05/2024, Research
3. Daffotech Innovations LLP, Trivandrum, 12/06/2024, Consultancy project
4. Daffotech Innovations LLP, Trivandrum, 12/08/2024, Consultancy project
5. Smithline Reinforced Composites, UAE (Industry Partner for the Department)

Programmes Organised

1. Dr. Leena R Rotating Machinery

Bootcamp Oct 2024 - Pumps & Compressors-Two Day Workshop For Technical Staff(Mechanical And Chemical Engineering Department)

2. Dr. T S Krishnakumar A Faculty Development Program (FDP) on “Design Thinking and Idea Lab Workshop” was organized from January 19-24, 2024, for faculty members and technical staff. This six-day-workshop trained participants in SolidWorks 3D modelling, 3D printing, embedded systems, Arduino programming, sensors, actuators, and laser cutting, for enhancing their capability to manage the newly introduced course, Idea Lab in our autonomous curriculum

Faculty Publications

◆ Dr.K A Shafi

1. B Monachan, RJ Thomas, M Skaria, KA Shafi, G Hareesh, B Emmanuel, “Experiments on capacitance based liquid flow meter with parallel channels used in two-phase”, S0955-5986(24)000 02- 5, International journal of Flow Measurement and Instrumentation, Elsevier, 2024.

2. Binet Monachan, Rijo Jacob Thomas , Mathew Skaria, KA Shafi, S. Kasthurirengan, Haresh Dave, A.K. Sahu “Numerical approach for investigating the influence of various flow and fluid parameters on the performance of a cryogenic two-phase flow meter” Flow Measurement and Instrumentation 97 (2024) 102617

3. Manu M John, Shafi KA and Rijo Jacob Thomas, “A hybrid experimental configuration for emissivity measurement at cryogenic temperatures”, Physica Scripta, Volume 99, Number 11, © 2024 IOP Publishing Ltd. DOI 10.1088/1402-4896/ad86fd

◆ Dr. Sadiq A

1. Kavitha Mol S and Sadiq A (2024), Influence of new AA 2xxx layers on the strength and damage responses of fibre metal laminates during soft body impact, Composite Structures 344, p118339. (-DOI: <https://doi.org/10.1016/j.compstruct.2024.118339>) SCIE, QI Journal

2. Kavitha Mol S, A. Sadiq, Stanley C. Salem, V. Sreenivasa, S. R. Viswamurthy, and B. S. Sugun (2024), Influence of new AA 2xxx layers on the energy absorption properties of fiber metal laminates, Mechanics of Composite Materials, 60 (6), p1117. (SCIE journal)

◆ Dr. Mathew Skaria

1. Binet Monachan, Rijo Jacob Thomas, Mathew Skaria, K.A. Shafi , S. Kasthurirengan, Haresh Dave, A.K. Sahu “Numerical approach for investigating the influence of various flow and fluid parameters on the performance of a cryogenic two-phase flow meter” Flow Measurement and Instrumentation 97 (2024) 102617

2. B Monachan, RJ Thomas, M Skaria, KA Shafi, G Hareesh, B Emmanuel, “Experiments on capacitance based liquid flow meter with parallel channels used in two-phase”, S0955-5986(24)000 02-5, International journal of Flow Measurement and Instrumentation, Elsevier, 2024.

◆ Dr. K E Reby Roy International Journal Publications (SCI Indexed)

1. Empirical correlation to analyze performance of shell and tube heat exchanger using TiO₂ Nanofluid-DI water in solar water heater, Case Studies in Thermal Engineering Volume 60, August 2024.

2. Experimental analysis of the effect of copper dimple tube with aluminum coating on the performance of parabolic solar water heater using helically twisted tape, *Advances in Mechanical Engineering*, Sage, Vol. 16(7), 2024.

3. OpenFOAM modelling of single-phase and two-phase heat transfer in square ducts partially filled with porous medium, *Experimental and Computational Multiphase Flow*, Springer, 09 March 2024.

4. Optimization of tribological characteristics in cryo-treated plastic/graphene oxide modified CFRP via ANN-based predictive modeling for aerospace applications, *Composites Science and Technology*, Elsevier, Volume 250, 3 May 2024.

5. Analysis of Free Liquid Surface Deformation and Thermal Destratification in Liquid Storage Tanks Using OpenFOAM, *Journal of Energy Storage*, Elsevier, October 2024.

6. Numerical investigation and optimization of an asymmetric elliptical-cylindrical pin fin heat sink, *International Journal of Thermal Sciences*, Elsevier, November 2024.

International Conference Publications

7. A Novel Method of Motion In Plate Conveyors To Achieve Uniform Heat Distribution, 18th International Congress on Thermal Analysis and Calorimetry (ICTAC 2024) 02-07 September 2024 IIT Madras, India

◆ Dr. Rijo Jacob Thomas

1. Binet Monachan, Rijo Jacob Thomas, Mathew Skaria, K.A. Shafi, Gokul Hareesh, B. Emmanuel, S. Kasthurirengan, Haresh Dave, A.K. Sahu, Experiments on capacitance based liquid flow meter with parallel channels used in two-phase, Elsevier: *Flow Measurement and Instru-*

mentation, Volume 96,

2024, 102522, ISSN 0955-5986, <https://doi.org/10.1016/j.flowmeasinst.2024.102522>, April 2024

2. Sivasubramaniyan N. S., Vignesh Rajeev Menon, Joy Varghese V. M. & Rijo Jacob Thomas, Numerical and experimental studies on the effect of cryogenic treatment on welding residual stress of TIG welded EN8 steel plate. *Taylor and Francis: Welding International*, 38(10), 712-722. <https://doi.org/10.1080/09507116.2024.2412677>, Sep 2024

3. Manu M John, Shafi K. A. and Rijo Jacob Thomas, A hybrid experimental configuration for emissivity measurement at cryogenic temperatures Published 24 • 2024 Publishing Ltd. All rights, including for text and data mining, AI training, and similar technologies, are reserved.

IOP: Science: *Physica Scripta*, Volume 99, Number 11, <https://dx.doi.org/10.1088/1402-4896/ad86fd>, October 2024

◆ Dr. Baiju V

1. Krishna Raj V., Baiju V., A. Asif Sha, K.L. Priya, S.B. Vishnu, (2024). Performance of Hybrid Nano-PCM Composite: Insights from T-History Method and Numerical Analysis, *Journal of Energy Storage*, Volume 90, Part A, 15 June 2024, 111708. [Elsevier Publication—SCIE, SCOPUS indexed], DOI: <https://doi.org/10.1016/j.est.2024.111708> Impact factor: 9.4.

2. Baiju V, Prithviraj Chauhan, Asifsha, Tyagi., (2024), "Adsorption of ethanol onto novel and indigenous green adsorbents: Synthesis, characterization, and applications", in *Journal of Cleaner Production*, SCIE, (Impact Factor – 11.2).

3. Baiju, V., Abhishek, P., & Harikrishnan, S. (2024). Performance investi-

gations of hybrid adsorption and thermo electric dehumidification desalination system. *Energy Conversion and Management*, 300, 117 912, SCIE, (Impact Factor – 10.46).

4. Aad Aljarf, Hardeep Singh, V Baiju, Mitsuhsalchiyanagi, Takashi Suzuki (2024) Experimental investigation of swirl motion of in-cylinder flow in CI engine under firing condition due to preinjection using PIV and POD techniques, *Automotive and Engine Technology*, Volume 8, 2024, 1-21.

5. Priya KL, Baiju V (2024) Analyzing the influencing factors and developing Artificial Neural Network-based prediction model for water turbidity, *Case studies in Chemical and Environmental Engineering*.

6. S. Shajan, V. Baiju, (2024) Experimental investigations of secondary reflector enhanced medium temperature parabolic trough solar thermal collector, *Journal of Thermal Analysis and Calorimetry*, SCIE, Springer publishers

7. Ashna Maria Martin, Baiju V, P Abhishek, Priya K L, "Development and performance investigation of solar-powered adsorption desalination system", 6th Indian Conference on Applied Mechanics (INCAM 2024), Organized by National Institute of Technology Warangal & Indian Society for Applied Mechanics, 12-14 July 2024.

8. Ajmi Midhlaj, Baiju V, Asif Sha, "Performance study of solar adsorption cooling system operating with composite adsorbent-ethanol as working pair", 6th Indian Conference on Applied Mechanics (INCAM 2024), Organized by

National Institute of Technology Warangal & Indian Society for Applied Mechanics, 12-14 July 2024.

9. Kasyap V, Baiju V, Asif Sha A, Nanda Kishore M, Mohammed Najid P K, Muhammed Awad T P, Muhammed Shareef, " PERFORMANCE INVESTIGATION OF A SOLAR POWERED ADSORPTION BASED ATMOSPHERIC WATER GENERATOR ",6th Indian Conference on Applied Mechanics (INCAM 2024), Organized by National Institute of Technology Warangal & Indian Society for Applied Mechanics, 12-14 July 2024.

10. Kasyap V, Baiju V, Priya K L Asif Sha A, Nanda Kishore M, Mohammed Najid P K, Muhammed Awad T P, Muhammed Shareef " Experimental Investigations on a Potable Adsorption based Atmospheric Water Generator " 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24), Organized by National Institute of Technology Calicut, India , June 6 - 8, 2024

◆ Dr. Krishna Raj V

Krishna Raj V., Baiju, V., A. Asif Sha , K.L. Priya , S.B. Vishnu, (2024). Performance of Hybrid Nano-PCM Composite: Insights from T-History Method and Numerical Analysis, Journal of Energy Storage, Volume 90, Part A, 15 June 2024, 111708. [Elsevier Publication— SCIE, SCOPUS indexed],DOI: <https://doi.org/10.1016/j.est.2024.111708> Impact factor: 9.4.

◆ Dr. T S Krishnakumar

"Synthesis and Thermo-Physical Characteristics of Terminol-66 Oil Based Nanofluids with Rare-Earth

Metal Oxide Nanocomposites" C. R. Indulal, J. R. Vanaja Raghavan, Leo Binoy, R. Ravikumar & T. S. Krishnakumar - Chemistry Africa, Springer, Volume 7, pages 1995–2004, (2024)

◆ Dr. Mohammed Sadikh

1. Dr. Mohammed Sadhikh has presented paperentitled "A Fusion of SVR and Fully Connected Networks for Improved RUL Prediction of Lithium-Ion Batteries" in 2024 2nd Global Conference on Information Technologies and Communications (GCITC) during 25th and 26th of October 2024.

2. Mubarak Ali M, Lijin Thomas, Nived N, Max Abraham, Mohammed Sadhikh, Shajahan CA, Aravind J, Reby Roy KE, Ajukumar VN, Ashfak A, Shukur Bin Hj Abu Hassan, "Development of Novel Reprocessed Composite Materials from Municipal Solid Waste" – A Review, Advances in Materials and Processing Technologies, Published Online on 12th June 2023, Volume 10, Aug 2024 - Issue 3, <https://doi.org/10.1080/2374068X.2023.2222470>, Impact Factor – 2.0

◆ Prof. Ajimshad A

Presented the paper titled "Machine learning assisted discovery of novel and light single-phase BCC Al10-Mo20Nb20Ti30V20 refractory high entropy alloy" in the International Conference on Advances in Management, Energy, Engineering and Technology (ICAMEET 2024) organized by Lourdes Matha College of Scienceand Technology, Thiruvananthapuram, Kerala during 13th -14th June 2024.

◆ Dr. Mubarak Ali A

1. Renju C Daniel, Febin Geo Sam, Lijin Thomas, S Kannan, Mubarak

Ali, Design and Simulation of Mg and Ti Alloy-based Wheel Nuts for Formula One Cars, Journal of Mines, Metals and Fuels, Published on May 2024, Volume 71, Issue 12A, 2023, <https://doi.org/10.18311/jmmf/2023/43085>, May 2024

2. M Manu, J Aravind, Sanal M, KE Reby Roy, Mubarak Ali M, Ummar Shaik, Optimization of tribological characteristics in cryo-treated plastic/graphene oxide modified CFRP via ANN-based predictive modeling for aerospace applications, Composites Science and Technology, Published online on May 2024, Volume 250, May 2024, 110520, <https://doi.org/10.1016/j.compsci-tech.2024.110520>, Impact Factor – 8.3, May 2024

3. ABM Supian, MRM Asyraf, Agusri-Isyamsir, Quanjin Ma, KZ Hazrati, MNM Azlin, M Mubarak Ali, Aizat Ghani, Lee Seng Hua, Syeed SaifulAzry, MR Razman, Zuliskandar Ramli, NM Nurazzi, MNF Norrahim, Senthil Muthu Kumar Thiagamani, Kenaf/glass fiber-reinforced polymer composites: Pioneering sustainable materials with enhanced mechanical and tribological properties, Polymer Composites, Published online on 24th July 2024, <https://doi.org/10.1002/pc.28785>, Impact Factor – 4.8

4. Munavar Fairouz Cheranchery, Fathima Ansari, Mubarak Ali, Is customized bus service for commuter segments the need of the hour? An integrated IPA-machine learning framework to redefine commuter segments based on quality expectations, Transport Policy, Aug 2024, Volume 154, Pages 16-25, <https://doi.org/10.1016/j.tranpol.2024.05.019>, Impact Factor – 6.3

5. Rakesh Pillai R, Anand Sekhar R, Mohith Dadu, Shifin AS, Mubarak Ali

M, Investigations on the Microstructural Evolution and Mechanical Properties of novel Al6061/7075-granite-SiC metal matrix composites fabricated through two stage stir casting, Journal of Process Mechanical Engineering, Published online on 12th Oct 2023, Volume 238 Issue 4, August 2024, <https://doi.org/10.1177/09544089231207071>, Impact Factor – 2.3

6. Mubarak Ali M, Lijin Thomas, Nived N, Max Abraham, Mohammed Sadhikh, Shajahan CA, Aravind J, Reby Roy KE, Ajukumar VN, Ashfak A, Shukur Bin Hj Abu Hassan, Development of Novel Reprocessed Composite Materials from Municipal Solid Waste – A Review, Advances in Materials and Processing Technologies, Published Online on 12th June 2023, Volume 10, Aug 2024 - Issue 3, <https://doi.org/10.1080/2374068X.2023.2222470>, Impact Factor – 2.0

◆ Prof. Rakesh Pillai R

1. Rakesh Pillai R, Anand Sekhar R, Mohith Dadu, Shifin AS, Mubarak Ali M, Investigations on the Microstructural Evolution and Mechanical Properties of novel Al6061/7075-granite-SiC metal matrix composites fabricated through two stage stir casting, Journal of Process Mechanical Engineering, Published online on 12th Oct 2023, Volume 238 Issue 4, August 2024, <https://doi.org/10.1177/09544089231207071>, Impact Factor – 2.3

2. Unveiling Enhanced Properties via Microstructural Evolution in Stir-Cast Al6061 Composite Reinforced with AlCrFeNiTi High-Entropy Alloy Particles Anand Sekhar R, Rakesh Pillai R & Firoz N, Arun B.S.

Faizal N.S First published: 13 June 2024 | <https://doi.org/10.1002/adem.202400516>

◆ Dr. Anand Sekhar R

1. Rakesh Pillai R, Anand Sekhar R, Mohith Dadu, Shifin AS, Mubarak Ali M, Investigations on the Microstructural Evolution and Mechanical Properties of novel Al6061/7075-granite-SiC metal matrix composites fabricated through two stage stir casting, Journal of Process Mechanical Engineering, Published online on 12th Oct 2023, Volume 238 Issue 4, August 2024, <https://doi.org/10.1177/09544089231207071>, Impact Factor – 2.3

2. Unveiling Enhanced Properties via Microstructural Evolution in Stir-Cast Al6061 Composite Reinforced with AlCrFeNiTi High-Entropy Alloy Particles Anand Sekhar R, Rakesh Pillai R & Firoz N, Arun B.S. Faizal N.S First published: 13 June 2024 | <https://doi.org/10.1002/adem.202400516>

3. B S, Arun and R, Anand Sekhar and V N Ajukumar, Tensile Strength Prediction of Ti-6Al-4V High Temperature Alloy Processed Via Selective Laser Melting: A Synergistic Approach Using Machine Learning and Experimental Validation. Available at SSRN: <https://ssrn.com/abstract=4989174> or <http://dx.doi.org/10.2139/ssrn.4989174>, 16 Oct 2024

◆ Dr. Ajukumar V N

1. Mubarak Ali M, Lijin Thomas, Nived N, Max Abraham, Mohammed Sadhikh, Shajahan CA, Aravind J, Reby Roy KE, Ajukumar VN, Ashfak A, Shukur Bin Hj Abu Hassan, “Development of Novel Reprocessed Composite Materials from Municipal Solid Waste” – A Review, Advances in Materials and Processing Technologies, Published

Online on 12th June 2023, Volume 10, Aug 2024 - Issue 3, <https://doi.org/10.1080/2374068X.2023.2222470>, Impact Factor – 2.0

2. B S, Arun and R, Anand Sekhar and V N Ajukumar, Tensile Strength Prediction of Ti-6Al-4V High Temperature Alloy Processed Via Selective Laser Melting: A Synergistic Approach Using Machine Learning and Experimental Validation. Available at SSRN: <https://ssrn.com/abstract=4989174> or <http://dx.doi.org/10.2139/ssrn.4989174>, 16 Oct 2024

◆ Dr. Ashfak A

1. Mubarak Ali M, Lijin Thomas, Nived N, Max Abraham, Mohammed Sadhikh, Shajahan CA, Aravind J, Reby Roy KE, Ajukumar VN, Ashfak A, Shukur Bin Hj Abu Hassan, “Development of Novel Reprocessed Composite Materials from Municipal Solid Waste” – A Review, Advances in Materials and Processing Technologies, Published Online on 12th June 2023, Volume 10, Aug 2024 - Issue 3, <https://doi.org/10.1080/2374068X.2023.2222470>, Impact Factor – 2.0

◆ Dr. Hashim V

1. Dr. Hashim V has presented the paper entitled “Design, Synthesis and testing of water hyacinth and Polyethylene Terephthalate (PET) Hybrid Composite” at the 7th International Conference on Modeling and Simulation in Civil Engineering organized by the department of Civil Engineering, TKM College of Engineering, Kollam, December 2024

Patents

1. Dr. K A Shafi

Innovative Fabric Dryer (Patent No.364340-001 Dated 18/01/2024) The patent, granted to Dr. Shafi K A, Prof. Sigi Kumar T S, Jeyakrishna

N , Mohammed Sabith Basari M, Neeraj S, Saran Senan(Patent No.364340-001 Dated 18/01 / 2024)

2. Dr. Sadiq A

Dr. Sadiq A has been granted the 4th patent, for a remarkable medical innovation titled 'A Device for the Hearing Impaired ' (Patent No. 539389, Application No. 202041001204). This invention features a hearing aid, that works based on the principle of 'electromagnetic gun induced bone conduction,' designed to assist individuals with hearing impairments, even those without an eardrum, in experiencing sound. The success of this interdisciplinary invention is due to the collaborative efforts of the innovators and scientists from various domains, Akhilesh R, Deepak Krishnan MS, Roopesh J, Tintu Joseph and Dr. Sadiq A, along with the invaluable support of professionals of National Institute of Speech and Hearing (NISH) and Dr. John Panicker (ENT, Santhwana Hospital) Thiruvananthapuram.

3. Dr. Hashim V

Dr. Sheeba A Title of the invention : WINDOW STAY CLUTCH

Date of filing of Application :12/09/2024

Application No.202441069038 A

Publication Date : 13/12/2024

4. Dr. Baiju V

Dr. Anand Sekhar R

Dr. Krishna Raj V

Dr. Mubarak Ali M

Prof. Rakesh Pillai R S o r p t i o n based solar desalination system with Thermo electric dehumidification unit, Patent Application Published, Application Number- 202441 05 1336, Journal Number- 28/2024,

Journal Date: 12/07/2024 - Indian Patent Office

5. Dr. Baiju V Jithin George, Dr. Baiju V, Hari Babuprakash, "SOLAR HYBRID ATMOSPHERIC WATER GENERATOR", Design No. 350765-001, Date 06 /10/2021, Date of Issue 24/07/2024

6. Dr. Anand Sekhar R

Prof. Ajimshad A

Prof. Rakesh Pillai R

Prof. Ahammed Bilal A

Prof. Faizal N S

Prof. Shifin A S

Prof. Mohith Dadu

Prof. Firoz N

Prof. Mohammed Irfan A

Title of the invention : Portable Arm Rest Divider Apparatus

Date of filing of Application :20/08 /2024

Application No.202441062772 A

Publication Date : 23/08/2024

Faculty and Staff Achievements

1. Dr. Rijo Jacob Thomas

Dr. Rijo Jacob Thomas, Associate Professor, Department of Mechanical Engineering, has been recognized as NPTEL Discipline STAR in December 2024. He has also been invited to the NPTEL Star Event at IIT Madras on February 2025.

2. Dr. Baiju V

Received The "BEST YOUNG FACULTY AWARD 2024" of TKM College of Engineering for the excellent contributions in teaching, academics, research and Societal extension activities. The award is instituted to recognize the best faculties of the TKM College of Engineering

3. Dr. Baiju V

As an INVITED SPEAKER at the University of Gyor to present

research on Solar hybrid atmospheric water generator. The travel grant is provided by DST Govt of India under Anusadhan Research Foundation Scheme(29th July to 2nd August 2024)

4. Dr. Baiju V

Received DST Travel grant to participate as the Invited Speaker at NEFES 2024 at University of Gyor, Hungary

5. Dr. Resmi S L

Resmi S L has been awarded the degree of Doctor of Philosophy in Mechanical Engineering with the title "Investigation on the Mechanical Behaviour of Implanted Femur-Bone"on 15thFebruary 2024

6. Dr. Mubarak Ali A

International Conference conducted in Kuala Lumpur with Universiti Teknologi Malaysia as main organizer and TKM as co-organizer

Consultancy/Project Fundings

1. Dr. K E Reby Roy

- 3D CFD modelling and Analysis of the Airflow and Thermal Humidity Mapping in cold room with stack, Daffotech Innovations LLP, Thiruvananthapuram, Rs. 50000/-

- CFD studies on the Fire Safety and HVAC requirements at the renovated domestic terminal of Thiruvananthapuram Airport, Daffotech Innovations LLP, Thiruvananthapuram, Rs. 75000/-

List of Books Published

1. Dr. Baiju V

Dr. Krishna Raj V, V. Krishna Raj, V. Baiju, "Thermal Energy Storage Systems for Solar Cooling Applications: An Overview." Planning of Sustainable Energy Systems in Urban Built Environments, published by Apple Academic Press. Exclusive co-publishing with CRC

Press, Taylor and Francis Group, Hard ISBN: 9781779640642.

2. Dr. Baiju V

"Solar Cooling: Basis and Advances" The book Published by Capital Publishing Company, New Delhi and Co-published by Springer, International Publishing, Cham, Switzerland, extensively covers the introduction of solar energy, its potential for cooling applications, solar collectors, energy storage methods, and various solar-operated cooling systems including vapour compression, absorption, and adsorption systems.

Special Note:

The UAE based company, Smithline Reinforced Composites, FZ LLC, has become an Industry Partner for the Department of Mechanical Engineering. The company offered internship to two PG students and on successful completion of internship, the company placed them.

STUDENTS ACHIEVEMENTS

Top Academic Performers in University Results - B.Tech 2020-2024

Name CGPA

Royce Mathai Rojimon	9.53
Nihal Y	9.52
Akhil M	9.51
Sandra Sunil	9.4
Jithu S I	9.4
Abhishek S Nair	9.25
Subin Suresh	9.23
Aravind R	9.19
Ashik K P	9.18
Sarath S S	9.17

Top Placements

- Sreya G K
Sobha Limited
- Kiran Kanth V
Sobha Limited

- Nihal Y
Drydocks World
- Mohammed Aftah N
Drydocks World
- Abhijith M
Drydocks World
- Abhishek S Nair
Bharat Electronics Limited
- Akshay Krishnan
Bharat Electronics Limited
- Adithya Krishna S
Bharat Electronics Limited
- Neeraj Sreekumar
South Indian Bank

Top CTC: 13 LPA, Total Offers: 130+ (till Dec 2024), Students Placed: 97

Higher Studies (2020-24 Batch)

1. Sarath S S
MS, Kookmin University
University in Seoul, South Korea
2. Amal Krishnan B S
MBA, IIM Ahmedabad
3. Irshad M
MBA, IIM Bombay
4. Jyothi TR
MS, TU DARMSTADT
Frankfurt, Germany
5. Tejomay M K
MTech, NIT Calicut
6. Jafar Khan J
M.Tech, TKM College of Engineering

Higher Studies (2020-24 Batch)

- IRCE
Rahul R.
Cryogenic Engineer QpiAI India Pvt Ltd, Bangalore
- CIM
Abhinand C. S.
Design Engineer (R&D) Teralu-men solutions Pvt Ltd., Chennai
- CIM
Ramvalsal S.

Technical Engineer Smithline Reinforced Composites, UAE

- CIM

Muhammad Malik F.

QC Engineer Smithline Reinforced Composites, UAE

Achievements of PhD Graduates

Dr. Ashok K. Balan and Dr. Binet Monachan, the PhD scholars with National Doctoral Fellowship (NDF) in the Department, could secure exciting jobs in reputed companies even before the awarding of their Ph.D. Dr. Ashok is working at Voxelgrids Innovations, Bangalore, who are indigenously developing cutting-edge MRI machines for India. Dr. Binet has joined the pioneering Space Startup, Skyroot Aerospace, who are behind India's first private orbital rocket launch. Dr. Riyo Jacob Thomas and Dr. Jose Prakash M. were the supervisors for Dr. Ashok K.B. and, Dr. Riyo Jacob Thomas and Dr. Mathew Skaria were the Ph.D. Supervisors for Dr. Binet





Dr. Ashok K. Balan



Dr. Binet Monachan

Competitions

Akshay Aneesh secured 2nd place in Python Project Execution as part of the IEEE Try Engineering funded project STEM.py, a 20 hours Python training program organized by IEEE SIGHT Kerala Section and IEEE EdSoc Kerala Chapter.

Professional Society Achievements

American Society for Mechanical Engineers (ASME)

- Akmal Amani P has secured 1st place in the ASME Elevator Pitch Competition at EFX 2024, hosted by FISAT.
- ASME TKMCE has been honoured with the Distinguished Student Section Award for the year 2023-24. The memento and a cash prize of 10k was handed over to Dr. Shafi KA, HOD of Mechanical dept by Dr. Sajeeb R, Principal of TKM

College of Engineering.

- ASME TKMCE, secured the highest attendance award (for active engagement at E-Fest Careers) for the second consecutive year with a \$500 cash prize.
- TKMCE ASME Student Section has been entitled with the recognition of ASME Distinguished Student Section Award.
- ASME TKMCE is proud to share that our ex chairperson Sarath S.S. has secured the ASME Student Section Recognition Program's Star Chair Award. He has been awarded the prestigious ASME Foundation Variable Scholarship valued at 200 USD.

Society for Automotive Engineers (SAE)

SAE TKMCE team Drona has secured BEST INNOVATIVE DESIGN FIRST PRIZE in the SAEISS Autonomous Drone Development Challenge (ADDC) 2024 held at KCG College of Technology, Chennai During 19th & 20th July 2024.

- XLR8 Formula student team of SAE TKMCE has secured an Overall rank of 19 in the National Formula Bharat 2024 competition held at Kari Motor Speedway, Coimbatore, January 19-24, 2024.
- SPOX team under SAE TKMCE has secured All India Rank 16th and All Kerala Rank 4th in the SAEISS Bicycle Design Challenge 2024, held at Knowledge Institute of Technology, Salem during 24th and 25th February, 2024.
- SAE TKMCE has won third place in SAEINDIA Southern Section Dr. G. Padmanabhan Memorial Electric Two Wheeler Design Competition held on 17th & 18th February 2024 at Rajalekshmi Engineering College, Chennai.

- XLR8 Racing team of SAE TKMCE has participated in the BAJA SAEINDIA 2024 competition held during 10th to 13 January 2024 at NATRAX facility in Pithampur, Madhya Pradesh.

- AEREX team of SAE TKMCE has secured All India Rank 36 in the ISS Drone Development Challenge 2024 held at SRMIST, Kattankulathur, Chennai during August 29th to 31st.

Sports

- Kirankanth V- Interzone football 1st, Interzone handball 1st, Zone kabaddi 1st
- Jito Tonce - South zone inter University handball tournament participation Football interzone champions, Handball interzone champions
- Hari Krishnan K U - Interzone handball 1st, 400 mts hurdles 3rd prize
- Jafin Noushad - Interzone Football 1st
- Pranav K Interzone handball 1st
- Abhinand and Faslul Rabbani-Kho Kho Interzone 3rd prize
- Muhammed Basith & Joyal M S – 1st Prize in Chess Interzone
- ALBIN K VARKEY - 400 mts relay 2nd prize
- MILAN SANTHOSH -Discus throw 2nd prize, Hammer throw 2nd prize and 2nd prize in Tennis Interzone
- Jocelyn Ann Ginu, B23MEC33, 3rd in Women's Chess interzonal
- Aboobacker Sidheeque P, B23MEC08, 1st in men's Chess interzonal
- Devanandana D, B23MEC24 - Kho kho - zonal 1st, Football-inter zonal 2nd

CHEMICAL ENGINEERING

Retired Staff

Mr. Jamaludeen H.
Trade Instructor (Gr.-I)
1994-2024

Programmes Organised

1 Research Talk on “Research Prospects in Industrial Safety and Engineering” Dr. Sreejith Mohan Assistant Professor, Department of Mechanical Engineering, NIT Tiruchirappalli, Tamil Nadu
04.09.2024

2 Invited Talk on “Research and Development in Chemical Engineering and its Applications in Defence Technology” Mr. Jaison Cletus, Scientist, Defence Research and Development Organization
07.10.2024

3 Workshop on “Mastering the Art of Resume and Linked-in” Mr. Mridul Joy, Independent Consultant, Melbourne, Victoria, Australia
03.08.2024

4 Undergraduate Chemical Engineering Curriculum (2023 Scheme) Workshop Dr. A. A. Arunagiri, Professor, NIT Trichy

Dr. K. B. Radhakrishnan, HOD, Biotechnology & Biochemical Engineering, SCT College of Engineering, Trivandrum

Dr. Sujith, VSSC 04.01.2024

5 Workshop on “Effective CV preparation” Ms. Jefy Jean, Assistant Manager (Coal Preparation), Coal India Ltd., Ranchi 02.04.2024

6 Workshop on “Research Prospects in Industrial Safety and Engineering”

Dr. V.R. Renjith, Professor, School of Engineering, Cochin University of Science and Technology, Kochi - 682022, Kerala, India
14.08.2024

7 Talk on “Sustainable Practices: Role of Engineers” Dr. Rijo Jacob Thomas, Associate Professor, TKMCE
11.04.2024

Faculty Publications

1 Dr. Fazil A. International Conference Carbon Foot Print Analysis for Sustainable Tourism: The Munroe Island Case Study International Conference on TSUNAMI RISK REDUCTION & RESILIENCE, Amrita Viswa Vidyapeetham, Amritapuri Campus, Kollam, Kerala 13-15 December 2024

2 Dr. Fazil A. International Conference TGA studies of hevea brasiliensis leaf biomass for energy extraction Materials for Energy, Environment and Healthcare (MEEHCON'24) NIT Calicut, 20-21 December 2024

3 Dr. Fazil A & Prof. Al Ameen A. International Conference Preliminary treatment of oily wastewater using polyaluminium chloride and deoiling polyelectrolyte International conference on Modelling and Simulation In Civil Engineering TKM collage of Engineering, Kollam during 5th to 7th December 2024

4 Dr. Femina A. National Conference Assessment of Water quality and mitigation of manganese contamination through biosorption techniques National Conference, ASSET, Department of Chemical Engineering, Amal Jyothi College of Engineering, Kanjirappally, Kottayam, Kerala held on 25,26 & 27th July 2024

5 Dr. Femina A. & Dr. Anu N.

National Conference Bioplastic Development from Elephant Food Yam Starch with Glycerol plasticizer and chitosan for Enhanced Mechanical Properties National Conference, ASSET, Department of Chemical Engineering, Amal Jyothi College of Engineering, Kanjirappally, Kottayam, Kerala held on 25,26 & 27th July 2024

6 Prof. Al Ameen A. International Conference Synthesis and enhanced photocatalytic activity of nitrogen doped Titania derived from ethylene diamine and oleylamine template I C E C E E S 2024, 15-17 February 2024

7 Prof. Al Ameen A. National Conference Enzymatic pretreatment for enhanced biodegradation of diary waste water National Conference, ASSET, Department of Chemical Engineering, Amal Jyothi College of Engineering, Kanjirappally, Kottayam, Kerala held on 25,26 & 27th July 2024

8 Dr. Saibi R. International Conference International Conference on Polymers, Composites, Nanocomposites and Biocomposites (ICPCNB-2024), MG University Kottayam, held on 8-10 November 2024

Patents

1 Prof. Aiswarya V. A Novel Corrugated Heat Sink with Hybrid Co-Filler Interfaced Microcapsules for Effective Thermal Management in Electronic Devices Patent No. 555685 Granted 02.12.2024

Faculty and Staff Achievements

1 Dr. Shijina S. S. Best Poster in the International Conference on Materials for Energy, Environment,

and Healthcare (MEEHCON 2024) held at NIT Calicut. This prestigious award was sponsored by ACS Publications. The prize was presented by Prof. Christian Kubel, Research Unit Leader of 'Advanced Electron Microscopy in Materials Research' at Karlsruhe Institute of Technology (KIT), Germany.

2 Prof. Al Ameen A. & Vyshak Chandran Best Paper Award at the International Conference on Tsunami Risk Reduction and Resilience (ICTR3), hosted by Amrita Vishwa Vidyapeetham, Amritapuri, in collaboration with UNESCO for the paper "Hybrid Machine Learning Models for Enhanced Tsunami Prediction: Advancing AI-Driven Disaster Management"

3 Dr. Shijina S. S. Successfully defended the research thesis titled "Graphene Based Heat Spreaders and Coolants for Battery Thermal Management of Electric Vehicles" on 29.08.2024 and awarded the degree on 07.09.2024 from NIT Calicut.

4 Prof. Al Ameen A. Awarded MS By Research Degree, IIT Bombay

Student achievements

1 Ms. Anjana K. Mohan (2020-24) Awarded the best NSS Volunteer (Female) by the University for her extraordinary contributions. She represented TKMCE in 26.01.2023 Republic Day Pared.

2 Mr. Ajith P. Mangottil (2019-23) IICHe-CGG Panicker & IICHe M R Kurup Gold Medal to B.Tech Topper in the APJ-KTU examination, May 2023

3 Mr. Joseph Sabu (2019-23) IICHe-CGG Panicker & IICHe M R Kurup Gold Medal to B.Tech Topper in the APJ-KTU examination, May

2023

4 Jeevan Darsh S., Athira Chandran G, Harigovind A., & Gopila O. S. Best Chemical Engineering Project Award, PTA-Alumni, TKMCE

5 Jeevan Darsh S., Athira Chandran G, Harigovind A., & Gopila O. S. Best Poster Award, Hestia-2024, TKMCE

6 Mr. Rahul P. (M.Tech Industrial Safety & Engineering, 2022-24) Placed at L&T, Utharakhand

7 Ms. Vidya B. S. (M.Tech Industrial Safety & Engineering, 2022-24) Placed at L&T, Mumbai

8 Ms. Sangeetha B. Sajeev (M.Tech Industrial Safety & Engineering, 2022-24) Placed at L&T, Chennai

9 Mr. Abhijith P. A. (M.Tech Industrial Safety & Engineering, 2022-24) Placed at Annur Cotton Mills, A Unit of Sharadha Terry Products, Coimbatore, Tamil Nadu

10 Ms. Anjana K. Mohan (2020-24) South Indian Bank interview that she victoriously cracked securing a stellar package of 12 LPA.

11 Mr. Akash S. Babu (2020-24) Placed in Reliance Ltd.

12 Mr. Sahal S. (2020-24) Placed in Reliance Ltd.

13 Ms. Muneera M. (2020-24) Placed in Reliance Ltd.

14 Gouri Anilkumar (2020-24) Sutherland

15 Aghanandh Shaji (2020-24) Sutherland

16 Hiba Bintah Haris (2020-24) Sutherland

17 Ebin Shaji (2020-24) Plant Lipids

18 Adith Reji (2020-24) Plant Lipids

19 Uvais (2020-24) Sutherland

20 Anjana D S(2020-24) Sutherland

21 Joseph Narivelil(2020-24) Sutherland

22 Akshay A (2020-24) Sutherland

23 Nandana C Nambiar (2020-24) Sutherland

24 Anand S Chandran (2020-24) Sutherland

25 Thansiha T S (2020-24) Sutherland

26 Athul M Das (2020-24) Plant Lipids

27 Riju Prabhakar (2020-24) Plant Lipids

28 Ajil J Marar (2020-24) TCS

29 Nandana Unni (2020-24) Accenture

30 Alfiya S (2020-24) Accenture

31 Athira Chandran G (2020-24) Accenture

32 Jeevandersh S Tata Consulting Engineers

33 Prathuish Prasad Tata Consulting Engineers

34 Amna Tata Consulting Engineers

35 Abhiram A MRF

36 Mr. Nithin K. (2021-25) Placed in MRF

37 Mr. Sarath Manikandan (2021-25) Placed in MRF

38 Mr. Ahamed Aman (2021-25) Placed in MRF

Rank Holders

1. Mr. Rahul P. (M.Tech Industrial Safety & Engineering, 2022-24) Topper in M.Tech Industrial Safety & Engineering (CGPA 9.00)

2. Mr. Akash S. Babu (2020-24)

1st Position in Chemical Engineering, TKMCE (CGPA 9.66)

3. Ms. Diya Mariam Kurian (2020-24) 2nd Position in Chemical Engineering, TKMCE (CGPA 9.59)

4. Ms. Gouri Anilkumar (2020-24) 3rd Position in Chemical Engineering, TKMCE (CGPA 9.57)

Highlights of 2024

1. Prof. Juan Carlos Colmenares Quintero, Professor at the Institute of Physical Chemistry, Polish Academy of Sciences, Poland, visited the Department and interacted with the faculty members, sharing his insights and expertise in physical chemistry and catalysis. He also visited the laboratories, exploring the ongoing research and facilities in the department.

It was a wonderful opportunity for academic exchange, fostering collaboration and inspiring new ideas. We thank Prof. Colmenares for his visit and look forward to future interactions!



Dr. Juan Carlos Colmenares Quintero's visit in Chemical Engineering Department

2. The IChE Student Chapter of the Department of Chemical Engineering proudly hosted the second session of the Astra Talk Series on the theme:

"New Impulse to Synergies Economy: Oil & Gas Industry Roadmap."

Mr. Manoj P L, Technical Advisor to the Vice President of Abu Dhabi Refinery, ADNOC, and Specialist in Energy and Sustainability at ADNOC Refining, delivered the

talk.

Mr. Manoj shared his deep insights into the evolving roadmap of the oil and gas industry, emphasizing strategies for sustainability, energy optimization, and economic synergies. His talk inspired the students with innovative perspectives and practical approaches for navigating challenges in the energy sector.



Mr. Manoj P L, 1990-1994 batch Alumnus during his visit to the Department

3. The following members of 1999-2003 batch alumni visited the Department of Chemical Engineering on 19.07.2024 as part of the 20 Years of reunion. Aby George Varghese, Adil Usman, Fazil A, Joju John Mathew, Jomichan Joseph, Mohamed Tharic, Mridul Joy, Simiraj SP, Sujith SR, Nisha Nandan, Rekha VR, Sajida Jasmine Fhamy, Shihabuddin Jamal, Shiju Babu, Swapna, Simi Maria Jacob, Abhaya. The UG and PG students of the Department interacted with them during the programme "THIRIKE", where the Alumni shared valuable insights and experience of their career.



1999-2003 batch Alumni with former faculty members of Chemical Engineering Department

4. An Industrial visit was organized

for 2nd year B.Tech students (2022-26) as part of the Course "Overview of Chemical Industries" on 15-19 February 2024 to FACT, TCC and HOCL - Ernakulam



5. 2004 batch Alumni Meeting conducted in the institute



Former HoD Dr. S N Jyothi interacting with 2000 – 2004 batch Alumni in the Department

6. 100 % placement for M.Tech in Industrial Safety and Engineering

7. Final Year students participated in 15 days All India Tour organized by the Department



The final year students at IIT Gandhinagar, as part of All India Tour

MCA

MoUs Signed

Solvilor Technologies Pvt Ltd (PLUGINHIVE) Bangalore signed on 21/3/2024

Programmes Organised

1. 30-hour certified workshop on "Parallel Programming" by Mr. Surya Prasad S, IIT Madras, Chennai, from 5th February - 16th February 2024

2. A workshop on "Docker and Kubernetes " by Mr. Sreeraj R and Gokul Krishna, Devops engineer, SASoft Technologies Pvt Ltd, Drisya, KINFRA Video Park, Trivandrum on 7th April 2024
3. A seminar on "VisualDub - GenAI technology" by Mr. Nithin S V, Full stack developer, Neural Garage Pvt Ltd ,Bangalore, Karnataka on 12 April 2024
4. Two day workshop on React.js and Basics of Node.js by Mr. Dileep G, Chief Technology officer and Mr. Vishnu P N, One team solutions Pvt Ltd ,Kochi, Kerala on 8th and 9th of August 2024.
5. One day seminar on latest technologies in current scenario by Rajesh Pai, General Manager, HCL Technologies LTD, Bangalore on 7th September 2024
6. A seminar on Trends in Technologies by Joy Sebastian,CEO, Techgentsia Software Technologies Pvt. Ltd on 11th september 2024
7. A seminar on Programming Trends by Shyne. S, Architect & Tech Lead, LTIMindtree, Bangalore on 25 November 2024

Faculty Publications & Patents

1. Nadera Beevi S, Anoopa S, Salim A , "Video Anomaly Localization using modified faster RCNN with soft NMS algorithm", International Journal of Data Science and Analytics, Springer, July 2024
2. Nadera Beevi S, Sree S Bhagya, Hrishiraj G L, "Code-Mixed Sentiment Corpus of Customer Reviews in Malayalam and English for Enhanced Local Market Analysis in India", 2024 International Conference on Emerging Smart Computing and Informatics (ESCI)Pune, India on March 2024
3. Muneera, Nadera Beevi S "Smart Navigation: Enhancing Vehicle Trajectory Forecasting with Deep

- Learning", First International Conference on the Innovations in Communications, Electrical and Computer Engineering (ICICEC 2024), Bapuji Institute of Engineering and Technology (BIET), Davangere, Karnataka, October 2024
4. Nandhana. PK and Fousia. M. Shamsudeen, "Deep Learning-Based Web Application for Skin Analysis: Enhancing Diagnosis Through Denoising and Classification", Int. Conf. Adv. Manage., Energy, Eng., Technol. (ICAMEET 2024), conducted by Lourdes Matha College of Science & Technology, Lourdes Hills, Kuttichal P.O., Thiruvananthapuram, Kerala, June 13–14, 2024.
 5. Reniya. Shajahan, Fousia. M. Shamsudeen, and Sumod. Sundar, "Alzheimer's Disease Prediction and Classification Using Deep Learning Techniques", at Int. Conf. Data Sci. Commun. (ICTDsC 2024), Siliguri Institute of Technology, Sukna, West Bengal, India, Nov. 21–22, 2024.

Student Achievements

Mr. Hrishiraj G L (2022-24) secured first prize in Poster Presentation conducted by TKM College of Engineering.

Alumni Achievements

Techgentsia Software Technologies Pvt. Ltd., headed by Joy Sebastian, 1999 Alumnus, Winner of the Bhashini Grand Innovation Challenge by Meity, Govt of India



Merit Evening Awards

1. Amjad Hussain secured 9.26 CGPA in End Semester Examination and selected as the best outgoing student of academic year 2023-24 considering curricular & extracurricular activities
2. Resika R S (9.61 CGPA), topper in S1&S2 MCA Examination January 2024.
3. Hrishiraj G L (9.91 CGPA), topper in S4 MCA Examination, June 2024.

COMPUTER SCIENCE AND ENGINEERING

Retired Faculty and Staff



J Shahudeen Kunju, retired from service as Programmer on March 2024

MoUs Signed

The department has extended the agreements with three companies, Machinser Technologies Pvt. Ltd., Yaatramantra Holidays Pvt. Ltd., and Ospyn Technologies, on November 2024.

Programmes Organized

- One day workshop in association with IEEE Society and CFI, IIT Madras for all CSE students on 13th and 14th December 2024.
- A One day Talk session on "Higher Studies opportunities in India and Abroad" was conducted for all CSE students by the Computer Science Association on 17-12-2024.
- An Expert lecture on SQL and MongoDB was conducted for first year CSE students by the Computer Science Association on 20-12-

2024.

- A one-day Alumni interaction on "Career Prospects in Computer Science" by Dilber P Shakir, Praveen Krishna S, and Githin Manesh, Anna Pramod from Oracle and UST Global on 13-9-2024.
- A one-day session on "Campus Hero Webinar" by Adarsh Namboodiri, Software Engineer-II, Toddle on 27 Apr 2024.
- A one-day session on "Gen AI with LLM", Mr. Risal Rasheed, Associate Software Engineer, Key value software systems on 23 Mar 2024
- A one-day session on "Pixel Craft - Gen AI Image Generation" by Amal Nath, Associate Software Engineer, Key value software systems on 27 Mar 2024
- A one-day session on "CP & DSA Dynamics: Placement pro" by Mr. Praveen Krishna, Application Engineer, Oracle on 27 Jan 2024

Faculty Publications and Patents

- Prof. Thushara A published a paper titled "Automatic American sign language prediction for static and dynamic gestures using KFM-CNN." *Soft Computing* (2024): 1-13.
- Prof. Manu J. Pillai, published a paper titled. "Enhancing Security in LLNs using a Hybrid Trust-Based Intrusion Detection System for RPL." *IEEE Access* (2024).
- Prof. Manu J. Pillai, published a paper titled "An Effective Detection Approach for Phishing URL Using ResMLP." *IEEE Access* (2024).
- Prof. Manu J. Pillai, published a paper titled "Saltus-A Sudden Transition" Empowered by Federated Learning for Efficient Big Data Handling in Multimedia Sensor Networks." *IEEE Access* (2024).
- Prof. Mohammed Siyad, published a paper titled "Processing-in-memory based multilateration localization in wireless sensor networks using memristor crossbar arrays." *Concurrency and Computation: Practice and Experience*.
- Prof. Anantha Padmanabhan and

Prof. Aneesh G. Nath, published a paper titled "An Interpretable Electric Vehicles Battery State of Charge Estimation using MHDTCN-GRU." *IEEE Transactions on Vehicular Technology* (2024).

- Prof. Shyna A and Prof. Ansamma John published a paper titled "Dual independent pathway-densely connected residual network with dilated convolution-based arterial spin labeling MRI image reconstruction with minimum label-control pairs in International Journal of Imaging Systems and Technology, 2024.
- Prof. Shyna, A and Prof. Ansamma John published a paper titled "A mixed loss joint approach-based deep learning strategy to enhance SNR and resolution of arterial spin labelling MRI." *International Journal of Biomedical Engineering and Technology*.
- Prof. Shyna A, Prof. Reena Mary George, and Prof. Jini Raju presented a paper titled "Paddy crop disease classification through Thermal image and Visual Image Analysis" in the Third International Conference on computing, communication, Security and Intelligent systems, July 2024.
- Prof. Shyna A, Prof. Reena Mary George, and Prof. Jini Raju presented a paper titled "Role of ECG digitization in the accurate Diagnosis of Cerebrovascular Diseases in the Third International Conference on computing, communication, Security and Intelligent systems, July 2024
- Prof. Reshma Sheik presented the paper "Deep Learning Classifiers for Legal Language Processing" at the Doctoral Consortium of the 21st International Conference in Natural Language Processing (ICON 2024) at MIT, Chennai on December 19-22, 2024.
- Prof. Reshma Sheik has a paper research paper, "Enhancing News Article Summarization Through Post-Processing Techniques," accepted in the 16th meeting of the Forum for Information Retrieval Evaluation (FIRE 2024), held from 12th to 15th December at DA-IICT, Gandhinagar.
- Prof. Reshma Sheik has a paper

titled "Mitigating Gender Bias in Large Language Models: An Evaluation Using Self-Consistency Chain-of-Thought Prompting" accepted in the 38th Pacific Asia Conference on Language, Information and Computation or PACLIC 38 (2024) on 7-9 December 2024 in Tokyo, Japan.

- Prof. Reshma Sheik presented the paper titled "Optimizing Tamil News Headline Generation with LoRA Techniques: Insights and Challenges" accepted in the Third International Conference on Speech and Language Processing for Low-Resource Languages at Vellore Institute of Technology (VIT), Chennai, December 04-06, 2024
- Prof. Reshma Sheik presented a paper titled "Enhancing LLM Performance on Legal Textual Entailment with Few-Shot CoT-based RAG" in the 4th IEEE International Conference on Signal Processing, Informatics, Communication, and Energy Systems 2024 (IEEE SPICES 2024) on September 20-22, 2024.
- Prof. Reshma Sheik "Enhancing Rhetorical Role Identification in Legal Documents using Large Language Models and IN_place Data Augmentation" accepted at the Third International Conference on Computing, Communication, and Learning (COCOLE)-2024 organized by the National Institute of Technology, Warangal, on September 13-15, 2024.
- Prof. Reshma Sheik presented the poster "Improving Legal Text Classification Performance using Open-Source Large Language Model Augmentation" at the Second International Conference on FOSS Approaches towards Computational Intelligence and Language Technology (FOSS-CIL T24) on March 21-22, 2024
- Prof. Reshma Sheik presented the poster "Unlocking Legal Insights: Exploring XAI Techniques with Domain-Specific Transformer Model" at the Second International Conference on FOSS Approaches towards Computational Intelligence and Language Technology

(FOSS-CIL T24) on March 21-22, 2024

- Prof. Reshma Sheik has the journal paper "Legal Sentence Boundary Detection using Hybrid Deep Learning and Statistical Models" published in Artificial Intelligence and Law Journal (SCIE, Q1), March 2024

- Prof. Reshma Sheik has the journal paper "Neural Data Augmentation for Legal Overruling: Small Deep Learning Network vs Large Language Models" published in Neural Processing Letters Journal (SCIE, Q2), March 2024

- Prof. Reshma Sheik presented the paper titled "Innovating LegalAI: Advancing Indian Legal Text Classification through Data Augmentation" ACM CODSCOMAD conference at IIIT, Bangalore January 4-7, 2024 - Accepted in Diversity and Inclusion Track.

- Prof. Reena Mary George presented the paper titled "Underwater Image Enhancement using Sequentially Connected Color Correction and Perceptual Enhancement Networks in the 2nd International Conference on Evolutionary Artificial Intelligence (ICEAI 2024), December 2024

Patents

- Dr. Aneesh G Nath, Portable Arm Rest Driver Aparatus, Dated 23/08/2024

- Dr. Aneesh G Nath, Sorption based solar desalination system with thermoelectric Dehumidification Unit, Date: 12/07/2024

Faculty and Staff Achievements

- Dr. Ansamma John, Vice Principal (Academics) and Professor of Computer Science at TKMCE, has successfully guided four PhD graduates under APJ Abdul Kalam Technological University.

- Prof. Shameem Ansar received

his Ph.D. on the topic "Certain Investigations on the Classification and Prediction of Landslides in the Idukki District using Geospatial and Machine Learning Techniques" from National Institute of Technology, Trichy.

- Prof. Shameem Ansar received the guideship under APJ Abdul Kalam Technological University.

- Prof. Shyna A received her Ph.D. on the topic "Implementation of methods to improve cerebral blood flow quantification in arterial spin labeling MRI to aid clinical diagnosis in human brain" from APJ Abdul Kalam Technological University.

- Prof. Thushara A received her Ph.D. on the topic "Predicting the risk of Alzheimer's disease using magnetic resonance imaging" from APJ Abdul Kalam Technological University.

- Prof. Jini Raju received her Ph.D. on the topic 'Novel Approaches to the Estimation of IVIM Parameters to Aid Clinical Diagnosis' from APJ Abdul Kalam Technological University.

- Prof. Reshma Sheik received her Ph.D. on the topic "Automating Legal Text Analysis: Deep Learning-based classifiers for Legal Language Processing" from National Institute of Technology, Trichy.

- Prof. Reshma Sheik received the Researcher Award awarded by the National Institute of Technology, Trichy, for outstanding performance in research in Computer Science and Engineering, received on Institute Day, May 3, 2024.



- Prof. Reshma Sheik received the Best Paper Award for the paper titled Enhancing LLM Performance on Legal Textual Entailment with Few-Shot CoT-based RAG" in 4th IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems September -2024,

- Prof. Reshma Sheik received the Best Poster Award for the poster titled "Improving Legal Text Classification Performance using Open-Source Large Language Model Augmentation" in the Second International Conference on FOSS Approaches towards Computational Intelligence and Language Technology (FOSS-CIL T24) on March 21-22, 2024.

- Prof. Reshma Sheik received the Best Presentation Award for the paper titled "Optimizing Tamil News Headline Generation with LoRA Techniques: Insights and Challenges", presented at the Third International Conference on Speech and Language Technologies for low-resource Languages SPELLL- 2024 in December 04-06, 2024.

- Our Ad-hoc faculties, Prof. Anice, Prof. Bismi, Prof. Fathima, Prof. Jesiya, and Prof. Jesna, qualified UGC NET exam.

- Adhoc Faculties Prof. Jaseela and Prof. Gopika received admission for Ph.D at APJ Abdul Kalam Technological University.

Student Achievements

- Ann Mary Saji secured the top position in the Computer Science & Engineering branch at TKM College of Engineering with an impressive CGPA of 9.85. Fathima Nooha Kottan-godan and Hala P achieved the second and third positions, with CGPAs of 9.78 and 9.55, respectively.

- Neeraj S.D. and Deepak P., from the Class of 2024, have secured

placements at COMMVault with a CTC of ₹34 LPA.

Placed at COMMVault
34 LPA CTC



- Abhijith D L, Aron Mathew Tom, Sreeresh S S and Sheron Rajesh created "SIP CONNECT" a student induction program management system which was successfully used during the conduct of SIP 2024.
- Sreehari Rajan, Akash J and Sanjay S J (2020-2024) have their research paper accepted at the top-tier IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2025 under the mentorship of Dr. Dimple A. Shajahan and Dr. Charu Sharma (IIT Hyderabad) as part of their final year project work.
- Sanjay Biju and Alin Joseph of first year CSE, AI batch became First runner up in India in the Bebras Computational Thinking Challenge 2024
- Pooja Sreenivasan of final year CSE got placed in Oracle with an annual salary package of 19.15 lakhs
- Anjana KJ and Athif Arshad of final year CSE secured internship at Pay3 with a stipend of 50000 per month.
- Three final year students of Computer Science and Engg., Anjana KJ, Anson Antony and Jijo Johny, secured 2nd prize in the AKAVE track at ETHIndia 2024, Asia's No.1 Hackathon for building an insur-

ance claiming system using ZKP



Secured 2nd place at ETHIndia 2024.
Asia's No. 1 Hackathon. in the AKAVE track.

- Aby Thankachan of third year CSE has secured best innovative design first prize in the SAEISS Autonomous Drone Development Challenge held at KCG College of Technology, Chennai.
- Anu Thomson of second year secured second place in women's interzonal in APJ Abdul kalam technological University football championship held at TKM College of engineering, Kollam
- Anaswara Prakash of second year Secured first place in women's zonal in APJ Abdul Kalam Technological University Table Tennis Championship held at UKF College of Engineering and Technology.
- Gopika P S of second year secured First place in women's zonal in APJ Abdul kalam Technological University khokho championship held at TKM College of Engineering, Kollam
- Yadu S Rajeev of first year CSE won First prize on the IEEE DAY PES QUIZ Competition held at College of Engineering Trivandrum on 17th November 2024.



- Vaishnav Bishoy, Sivanandana, Parthiv and Yadu S Rajeev of first

year CSE won first prize in the event Buzzle, conducted as part of Espoir 24, the All-Kerala Mathematics Fest.

Alumni Achievements

- Kavita Nair, an alumnus of the 2006-2010 batch, has been promoted to Lieutenant Colonel in the Indian Army.



- Chethan Kamath of the 2005-2009 batch, has joined as Asst. Professor in the CSE department of IIT Bombay.



Others

A new programme, B.Tech in Computer Science & Engineering (Artificial Intelligence), with an intake of 60 students, has started in 2024.

- Department of CSE has initiated Gate coaching for final and Pre-final year students in association with CLAS for career development.
- 130+ BTech Fourth Semester CSE Students from TKM College of Engineering, Kollam had visited IIT Madras Research Park to explore the startup_ecosystem at IITM Incubation Cell.



- The Department of Computer Science and Engineering takes a significant step forward for establishing the 'Centre of Excellence in AI Innovations and Applied Computer Vision'. As part of the alumni support initiative, the 2001, 2002 and 2004 CSE alumni batch has contributed three workstations to the department. The department extends heartfelt thanks to Mr. Maneesh V. B, Arun Nair, and Jobin Kuruvila from the 2004 batch for their exceptional efforts in coordinating and realizing this initiative, as well as to Sujit Prasannakumar and Ajit Sen from the 2002 batch for their invaluable support and collaboration in making it a success. Special thanks to the 2001 alumni, Dinakar Jayaraj, Ashish, along with all contributing alumni, for their unwavering cooperation and commitment.



ARCHITECTURE

Programmes Organised

◆ Name of the event: Pre-event for exhibition 'Parinama'

Date of event: 8 December 2023

Location of event: TKM College of Engineering, Kollam

Venue: Central Portico, TKM College of Engineering

Event Report

On February 6th the Society of Student Architects conducted a pre event in light of the upcoming exhibition 'Parinama' which is to be held from 17th to 21st of February. The event was done by collaborating with TKMSA as part of the Founders Day celebrations. Sheets and models done by students of S1 to S6 were panelled.

The event was an open display of works which was viewed by many showing a glimpse of the upcoming exhibition. Model of the college which was made a few years back was also part of the display which added more emphasis on the importance and beauty of hand-made works



◆ Name of the event Samunnati 2023- Student Biennale.

Date of event: 8 December 2023

Location of event: Dlehi, India

Event Report

Ministry of Culture, Government of India is organizing India Art, Architecture & Design Biennale 2023 from 9th to 15th December 2023 at Red Fort, Delhi. As an outreach partner for the event, Council of Architecture is also organizing The India Art, Architecture and Design Student Biennale Samunnati 2023 in collaboration with the Ministry of Culture, Gov. of India from 9th to 15th Dec.

COA has invited all architectural institutions to participate in Samunnati 2023- Student Biennale. CoA is providing the opportunity to all Design and Architecture colleges to project their institutions' work at a National level. The COA will be

issuing certificates to all participating students and recognizing the participation of the institutions.

The students who participated in the competition are:

1. Malavika Biley S5 B.Arch
2. Niranjan K.P. S5 B.Arch
3. Anju Ayyappan S5 B.Arch
4. Mabel Yohannan S5 B.Arch
5. Neha Lucia Alosious S5 B.Arch

Faculty who accompanied them are:

Dr. Annie John & Prof. Naheez Nazar



◆ Name of the event: Hiwaga'24

Date of event: May 3-5, 2024

Location of event: Department of Architecture, TKM College of Engineering, Kollam

The highly anticipated art fest of TKMCE, HIWAGA'24 conducted by SSA TKMCE, was held from May 3-5 as part of HESTIA'24. This vibrant event brought together creative minds, showcasing a diverse range of activities, including workshops such as Graffiti Workshop by Left Hande, Arch Illustration Workshop by Ar. Aboobacker Basil, Photography Workshop by Ar. Harwin Pinto, and Digital Art Illustration Workshop by Alan Pappy. The event also featured competitions that sparked innovation, dialogues and panel discussions featuring esteemed architects from Kerala, cultural showcases highlighting local talent, and live performances that captivated audiences.

The festival's highlight was the

Cardex and Kadalas exhibitions, where students proudly displayed and sold their handcrafted artifacts, demonstrating their skill and creativity

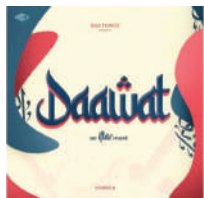


◆ Name of the event: Daawat

Date of event: April 4, 2024

Location of event: Department of Architecture, TKM College of Engineering, Kollam

The Department of Architecture organized a delightful Iftar Dawat on April 4 to celebrate the holy month of Ramadan. The event brought together students and faculty members, fostering a spirit of community and togetherness



◆ Name of the event: Sketch Walk (Live Sketching Workshop)

Date of event: Nov 22, 2024

Faculty Coordinator: Prof. Shibina R

Location of event: TKM College of Engineering, Kollam



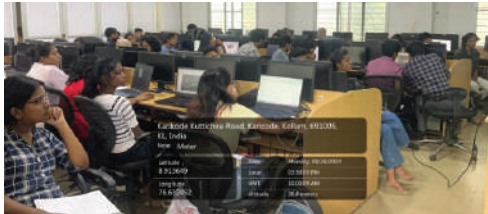
◆ Name of the event: Revit workshop

Date of event: Aug 24, 2024

Conducted by : InterCAD

Faculty Coordinator: Prof. Poornima Kurup

Location of event: TKM College of Engineering, Kollam



◆ Name of the event: Rammed Earth and Sustainability Construction workshop

Date of event: Dec 16, 2024

Faculty Coordinator: Prof. Ramees Rifas

Location of event: Kolenchery, Ernakulam

Event Report: The Rammed Earth and Sustainability Construction Workshop successfully achieved its objectives, leaving participants equipped with valuable knowledge and skills. The event underscored the importance of sustainable construction practices in addressing environmental challenges and promoting the use of eco-friendly building materials.

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Faculty Journal Publications

- Nishan Nazer (first author) Title: A GIS-Based Decision Support System to Study the Impact of Land Use Policies on Water-Related Ecosystem Services—A Case Study of Kozhikode, Kerala.

Journal: Environmental Quality Management

- Nishan Nazer (first author)

Title: A methodological framework integrating land use land cover and ecosystem services for optimal urban land management

Journal: IOP Conference Series: Earth and Environmental Science

- Josin Baby Mathew (First Author) Title: Study focuses on the socio economic vulnerability of coastal settlements in the context of Kerala. (Journal: International Journal of Advances in Engineering and Management (IJAEM))

Faculty Members in Board of Studies

- Dr. Sambath RD appointed as member of Board of Studies of Visual and Performing Arts at Kerala University and Bachelors of Design at APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY.

- Dr. Deepa L & Prof. Ayyappan K A were appointed as members of Board of Studies Architecture at APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY.

- Dr. Santhosh kumar K G, Prof. Ayyappan K A and Prof. Poornima Kurup were appointed as members of Board of Studies Architecture at Calicut University.

- Prof Gadhi M appointed as member of Board of Studies of engineering studies at Kerala University

- Prof. Poornima Kurup was appointed as Faculty of Engineering and

Technology, Kerala University,
2023-2024

Conference Publications:

- Surya P. S (First Author) Title: The association of Emotional Well-being with Façade colour A study of Fontainhas, Goa. (Conference: 22nd Annual Conference of the International Society for Quality-of-Life Studies 25th-28th June, 2024 Kota Kinabalu, Malaysia)

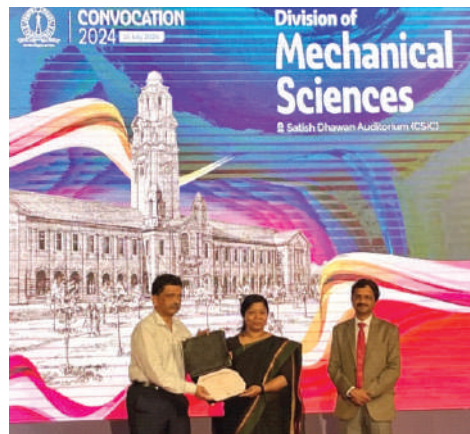
Faculty Achievements

- Dr. Annie John
- Co-Chair for the theme SDG11 Sustainable Cities and Communities in the 7th international Conference on modelling and simulation in Civil Engineering held from 5th to 7th Dec 2024
- Collaborated as an expert member with KILA on two research projects 1. Municipal Land monetisation 2. Assessing the challenges and opportunities for tourism enterprises for Kerala Urban Policy Commission 2024
- Coordinated the pre conference workshop on strategies for effective recycling and waste management practices for ICMSC 2024
- Obtained membership of ISO-CARP (International Society of city and Regional Planners) in 2024
- Participated as an evaluator for the District level evaluation for the Young Innovators Program 6.0 category (For K-DISC/ YIP 6.0 Category 1)
- Presented in URBAN LAB: Risk informed and Effective Urban Planning and Policy Formulation on the topic- Urbanisation focusing on Kollam region as a part of Rebuild Kerala Initiative of GoK on 31st Aug 2024



Dr. Annie John

- Dr. Deepa L
- Awarded PhD. From Indian Institute of Science, Bangalore on 22nd June 2024
- Received the Best Paper Award and the Best Oral Presentation Award 14th at the 14th International Conference on TPMDC.



Dr. Deepa L

- 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



Prof. Gadhi M

Students Achievements

- Mariya Joy, B.Arch (2019-2024)

KTU 1st Rank , CGPA: 9.27



- Anjali Murali, B.Arch (2019-2024) KTU 2nd Rank , CGPA: 9.05



- Rithu Mariyam Roy, B.Arch (2019-2024) KTU 7th Rank , CGPA: 8.84



- Abishek Georgie Shibu, B.Arch, Combined SGPA of 9.4 in S7&S8



- ALIYA ASLAM, B.Arch, Combined SGPA of 9.4 in S7&S8



- Elsa Selin Daniel, B.Arch, Best in Academics, Secured a combined CGPA of 8.65 in S5&S6



- Malavika E Biley, B.Arch, Secured a combined CGPA of 8.63 in S5&S6 (Second Highest)



- Abhay Krishnan, B.Arch, Highest Academic performer till date, Secured a combined CGPA of 8.84 in S3&S4



- Maushami Sajid, B.Arch, Second Highest Academic performer, Secured a combined CGPA of 8.82 in S3&S4



- Amina Jihan K I, B.Arch, Highest combined SGPA score in S1&S2 (8.78)



- Gopika Sunil, B.Arch, Second Highest combined SGPA score in S1&S2 (8.75)



- Ashita Thaha, M.Plan 2022-2024 Batch Topper. CGPA- 9.46



- 66th LIK Trophy- CITATION



- ANC Fashion Trophy- Special Mention 2



- Fida Fathima Navas, B.Arch (2022-2027)
- Individual Champion, and Secured 1st Prize in 3000M, 1500M, 800M Running race & 4*100M Relay in College Annual Athletic meet.
- 1st Position & meet Record in 5000M Running Race & 2nd Position in 3000M Running race in the KTU Intercollegiate Athletic Meet 2024,
- 2nd Position in 5000M Running race & 3rd Position in 1500M Running race in the Kollam District Athletic Meet
- Winner- Kho Kho KTU B- Zone Championship
- Represented Kollam District in the Kerala State Senior Kho Kho Championship
- Individual Champion, and Secured 1st Prize in 5000M, 3000M, 1500M Running race & 4*100M Relay in College Annual Athletic meet, Athlos'24



- Malavika Biley, B.Arch (2021-2026), Represented KTU in the Inter University Tennis Tournament 2024 & 2nd in KTU interzone Tennis Tournament 2024



- Hanaan Zain P V P, B.Arch (2021-2026), Represented KTU in the Inter University HandBall Tournament 2024



- Sabith Santhosh, B.Arch (2021-2026), Represented KTU in the Inter University Football Tournament 2024, 1st Prize in KTU Interzone Football tournament 2024



- Abhirami Manoj, B.Arch (2021-2026)
- 3rd Prize in Hurdles 400M in the 6th intercollegiate athletics meet - February College Sports Meet
- 1st Prize for Hurdles 100m, 2nd Prize for Hurdles 400m, 3rd Prize for 100M Relay, 3rd Prize in 400M Relay
- 2nd in KTU Interzone Football tournament



- Sreelakshmi S, B.Arch (2021-2026)
- 2nd Prize for 400M Relay & 3rd Prize for Triple Jump, Discus throw, 400M Hurdles, 100M Relay in College Annual Athletic meet (February 2024)
- 1st Prize for Aksharaslokam & 3rd Prize for Sanskrit Recitation in Col-

lege Arts Fest

- Winner- Kho Kho KTU B- Zone Championship
- 2nd Prize for 100M Hurdles & 3rd Prize for Triple Jump, Discus throw, 400M Relay, 100M Relay in the College Annual Athletic meet (December 2024)



- Gayathri K R, B.Arch (2022-2027)- Winner in B Zone KTU kho kho & basketball Tournament, Hindi speech & Hindi debate Winner in the TKM Arts Fest.

- Neha Krishna, B.Arch (2024-2029) Winner in B Zone KTU kho kho tournament and participated in Interzone Tournament



- Neha Lucia Alosious, B.Arch (2021- 2026)
- 1st Prize for Mixed Relay, 2nd Prize in 800M, 1500M Running Race & 400M Relay in College Annual Athletic meet (February 2024)
- 1st Prize for Mixed Relay, 3rd Prize in 3000M Running Race & 4*400M Relay in College Annual Athletic meet (December 2024)
- 1st Prize in English Poetry Writing & 2nd Prize in Western Group Song



- Neeraj Dinesh, B.Arch (2021-2026)
- 1st Prize in KTU B Zone & 2nd in KTU Interzone Cricket tournament.
- 1st Prize for Gazal and Group Song in College Arts Fest
- 2nd Prize for Light Music



- Mabel Yohannan, B.Arch (2021-2026), 2nd Prize for English Group Song & 3rd Prize for English Elocution, Millennium Fellowship Project (EYES - "Empowering Youth through Enduring Skills)



- Hana, B.Arch (2021-2026) 3rd Prize for 1500M Running Race in the College Annual Athletic meet.
- Sneha Rameshan & Sreelekshmi, B.Arch (2021-2026) got 2nd Prize in interzone Football Tournament
- Aryalakshmi, B.Arch (2021-2026)- 1st Prize for Javelin Throw in the College Annual Athletic meet.
- Vethika, B.Arch (2021-2026)- 1st Prize for Rangoli, 2nd Prize for Tamil Elocution & Tamil Poetry, 3rd Prize for Collage & Tamil Recitation
- Malavika Anoop, B.Arch (2021-2026), 3rd Prize in English Essay Writing (Arts Fest)
- Afiya Shabeer, B.Arch (2021-2026), 2nd Prize in Western Group Song (Arts Fest)
- Fathima Aafreen, B.Arch (2021-2026) - 2nd Prize for shot put in

College Annual Athletic meet.

- VanlalSangzuala, B.Arch (2021-2026)- 1st Prize for Western Song & 2nd Prize for English Group Song in College Arts Fest
- Hiba Jalal, B.Arch (2022-2027) 1st Runner up in KTU Interzone Football Championship & Hindi debate Winner in the TKM Arts Fest.
- Abhay Krishnan, B.Arch (2022-2027)- Third Prize in the Quiz competition of TKM Arts Fest
- Ruth Elizabeth Joby, B.Arch (2022-2027)- Winner in KTU B ZONE basketball tournament and participated in the KTU Interzone basketball tournament
- Rithin Mohammed, B.Arch (2022-2027)- Third Position in the KTU Interzone Volley Ball Tournament
- Ajooba T E, B.Arch (2023-2028)- 1st Prize for Mapila Pattu, Group song in Rithva College Arts Fest. 1st Place in APJA KTU B Zone Badminton Tournament 2024
- Sabiha Sulaikha K K, B.Arch (2023-2028)- 3rd Prize for Long jumb in the 68th Kollam District Atheletic meet & 2nd Place in APJA KTU Interzone FootBall Tournament 2024
- Adhi N, B.Arch (2023-2028)- 1st Prize for Group song & 3rd Prize for Oppana in Rithva College Arts Fest & 2nd Place in APJA KTU Interzone FootBall Tournament 2024
- Krishna L Prakash, B.Arch (2023-2028)- 1st Prize for Painting, 2nd-Prize for Collage, 3rd Prize for Rangoli in Rithva College Arts Fest
- Liya T, B.Arch (2023-2028)- 1st Prize for Mapila Pattu in Rithva College Arts Fest
- Nithya G Krishna, B.Arch (2023-2028)- 1st Prize for Group song in Rithva College Arts Fest

- Ayana Chandra C S, B.Arch (2024- 2029) APJ Abdul kalam technological University B zone volleyball tournament 2024-25 women's winner and participated in Interzone tournament

- Shravan E Rajeev, B.Arch (2024-29) 2nd prize in Men's 4*100m relay in Annual athletic meet'24



- Swafa Hamza, B.Arch (2020-25) - Participated in the APJAKTU Basketball interzone tournament 2024

- Daniel Anil David, B.Arch (2020-25) -3rd Prize for Shot put in the College Annual athletic meet 2024 & participated in the APJAKTU basketball interzone tournament 2024

- Gautam Ramesh Kumar, B.Arch (2020-25) - Participated in the Volume Zero Tree house competition

- John C George, B.Arch (2020-25) - Participated in the Volume Zero Tree house competition

- Arjun Balakrishnan, B.Arch (2020-25) - Participated in the Volume Zero Tree house competition

- Mohammad Faheem, B.Arch (2020-25)- Runner up in the APJAKTU B Zone Kabaddi Tournament & Participated in the Interzone Kabaddi tournament 2024

- Shehnas TK, B.Arch (2020-25) - Topper in the NPTEL certification course

- Lenny Susan Varghese, B.Arch (2020-25)- Participated in the Asia Young Designer Awards 2024

- Meenakshi K Prasannan, B.Arch (2020-25)- Participated in the Asia Young Designer Awards 2024

PLACEMENTS

Nirmal Jose, Neeraja V M, Sreekanth Damodaran, Naja Fathima (2019-2024) B.Arch, got placed at GINCO



THESIS PRESENTATION

- Maria Joy, B.Arch (2019-2024) was awarded Coa Thesis Award, Zonal Level & the prestigious IIA Cochin Kerala Thesis Award KATHa 2024. She was shortlisted among the top 20 out of 100 talented participants, and eventually, selected as one of the 5 winners by a distinguished jury comprising renowned architects: Ar. Suhasini Ayer, Ar. Sachin Soni, Ar. Damith Premthilake



- Vinayak Venugopal, B.Arch (2019-2024), Best Project Award



Student Paper Publications

Topic: Factors should be considered for the sustainable redevelopment of a Brownfield to an Industrial Use.

Author: Amina B Karim, M.Plan (2022-2024 batch) Co- Author: Navya Ann Thomas

Topic: Utilizing Crime Mapping Techniques to Mitigate Violence against Women Crafting a Comprehensive Framework

Shajitha.S, M.Plan (2022-2024 batch) Co- Author: Dr. Annie John, Jahnavi S

Topic: Analysing the Adoption of Transferable Development Rights in the Indian Context

Author: Archana V.S, M.Plan (2022-2024 batch) Co- Author: Dr. Annie John

Topic: Study focuses on the socio economic vulnerability of coastal settlements in the context of Kerala

Author: Anakha K, M.Plan (2022-2024 batch) Co- Author: Josin Baby Mathew

Topic: Pilgrimage by Pamba Sustainable Planning For Mitigating Environmental Impact of Tourism along the Pamba River

Author: Carolin Sara Benny, (2022-2024 batch) Co- Author: Dr.Santhosh Kumar

Topic: Revitalization of Traditional market and precinct in an urban area

Author: Sona Krishnan G P, (2022-2024 batch) Co- Author: Swetha P Devassy

Alumni Achievements

- Ar.Fathima Mubarak (2013-2018 batch)

Fathima Mubarak of Atkins Réalis has been honored with the prestigious "Rising Star of the Year 2024" award at the Construction Week Awards in Saudi Arabia. This accolade is a testament to her exceptional contributions and dedication to

advancing innovation within our industry.

Fathima has been instrumental in driving success across several high-profile projects, including New Murabba, Soudah, and the Red Sea Development. Her commitment to excellence and visionary approach have significantly impacted these initiatives, setting new benchmarks for quality and sustainability.



• Ar. Mohammed Akheel (2013-2018 Batch), Ar. Kailas Unnikrishnan (2013- 2018 Batch), Ar. Aadhil Kabeer (2013- 2018 Batch) and Ar. Muhammed Zain (2018- 2023 Batch) of Studio 3 AM has been honored with the FOAID 2024 Award in New Delhi under the Ongoing Projects category.



• Ar. Ramees Rifas (2017- 2022 Batch)
Ramees Rifas got Gold Medal in National Level for Shuttle Badminton (Singles) in the Indian Institute of Architects Premier League (IIAPL) 2024 held at Chhatrapati Sambhaji Nagar, Maharashtra.



DEPARTMENT OF PHYSICAL EDUCATION

ACHIEVEMENTS OF DEPARTMENT OF PHYSICAL EDUCATION 2024



College football women's team champions APJ Abdul Kalam technological university all Kerala football tournament 2024-25



College Chess men's team champions APJ Abdul Kalam Technological university all Kerala chess tournament 2024-25



College Tennis women's team runner up APJ Abdul Kalam technological university all Kerala tennis tournament 2024-25



College Tennis men's team runner up APJ Abdul Kalam technological university all Kerala tennis tournament 2024-25



College khokho men and women team champions APJ Abdul Kalam technological university zone khokho tournament 2024-25



College shuttle badminton women's team champions APJ Abdul Kalam technological university zone shuttle badminton tournament 2024-25



College volleyball women's team champions APJ Abdul Kalam technological university zone volleyball tournament 2024-25.



College basketball men's team champions APJ Abdul Kalam technological university zone basketball tournament 2024-25.



College basketball women's team champions APJ Abdul Kalam technological university zone basketball tournament 2024-25.



College football men team champions
APJ Abdul kalam technological university
zone football tournament 2024-25



College chess men and women team
champions APJ Abdul kalam technologi-
cal university zone chess tournament
2024-25.



College kabaddi women team runner up
APJ Abdul kalam technological university
zone kabaddi tournament 2024-25.



College table tennis men and women
team champions APJ Abdul kalam
technological university zone table tennis
tournament 2024-25



College kabaddi men team runner up APJ Abdul
kalam technological university zone kabaddi
tournament 2024-25.

NATIONAL LEVEL PARTICIPANTS

AMAN VIJAYAN (M5) - KHO KHO
MIDHUN (ER5) - KHO KHO
MILAN SANTHOSH (M5) - TENNIS
NARAYAN U (ER1) - TENNIS
NAVANEETH K (C8) - FOOTBALL
MALAVIKA E BILEY (A8) - TENNIS

JEBIN MOHAMMED ASHRAF (T8) - FOOTBALL
SIVA SOORYA (M3) - FOOTBALL
GODSON SHAJI (M3) - KABADDI
ANCHU G (C1) - CHESS
KARTHIK (T1) - ROLLER SKATING
ABHINAV MENON (M5) - CRICKET

DEPARTMENT OF MATHEMATICS

Publication:

Lijo Vincent, Mathew Varkey T.K., Rajesh Kumar T. J., "On the Lower Bound of Modified Sombor Index of Graphs with Minimum Degree at Least Three", " Proceedings of Jangjeon Mathematical Society ", pp. 643-660, vol. 27, no. 4, Oct 2024.

Available: <http://dx.doi.org/10.17777/pjms2024.27.4.643>

OBITUARY



Shanir : A Lament of Memories...

Dr. Shanir embarked on his eternal journey on 6th February, 2024.

A dedicated individual, even on his final day, Dr. Shanir was engrossed in ensuring press coverage for the college event held that same day.

With his characteristic calm

composure, Dr. Shanir steadfastly supported his colleagues and students through life's joys and struggles, ever ready to rush them to medical aid when needed. His commitment to the college and its students remained unwavering.

He was always among the first to arrive and the last to leave, diligently completing his duties on time. His unshakeable faith in God and humanity reflected in his gentle smile, which even death couldn't erase.

"Farewell, dear Shanir... May your gentle smile dispel the haunting memories of your passing. Your brief yet impactful life at TKMCE has kindled a lamp that will shine eternally, illuminating the path for generations of students to come."

Dr. Sudheer A
Dean-Alumni & International Affairs

OBITUARY



George Sabastian
(1967 E)



K. Rajagopalan
(1976 C)



Dr P. Krishnamoorthy Iyer
(1965 E)



N. Ram
(1977 E)



Rajagopal Thirumalai
Sami Iyyengar
(1970 A4 C)



Tony Joseph Alappat
(1964 E)



Yousuf V.A.
(1972 M)



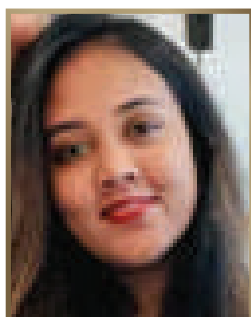
Vivek Krishna
M3B



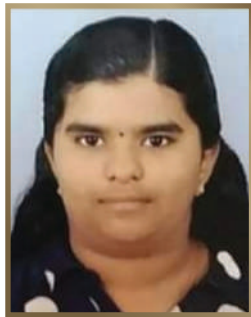
Sreevaibhav M
Chemical 22



Aadil
Mechanical Production
Engineering (2014-18)



Alice Priyanka Benziger
(2007 EEE)



Gopika s Dilip
(T4 B)



Anila Roy
(1986 Chemical)

TRIVANDRUM CHAPTER

TKM College of Engineering Alumni Association (Trivandrum Chapter) is comprising of 850 members representing various Govt, Private Organizations and business organisations in Trivandrum. Activities conducted during the period 2024 are as follows :



Family Trip on 17/03/2024 (Sunday) to Board Ashtamudi Cruise including visit to Sambranikodi Island and Thangasseri Light house, Kollam. Total 23 persons including family members attended the tour programme



Family Trip on 10/11/2024 to Thodukayil Lakeside Kollam

2. Major Achievements

- ❖ Registration of TKM College of Engineering Alumni Association Trivandrum Chapter under The Travancore-Cochin literary, Scientific and Charitable Societies Registration Act XII of 1955) done on June 2024
- ❖ Bye-Laws of TKMCE Alumni Association framed on July 2024
- ❖ Received PAN Card for TKMCE Alumni Association Trivandrum Chapter on July 2024.

3. Technical Talks



Talk by Dr. Rajendra Babu, Former Professor and Head Department of Civil Engineering, CET on topic "Calendar Tricks" on 16.07.2024 at Mannam Memorial National Club, TVM



Talk by Er. Anilkumar Pandala (1976 Batch) conducted on 26/06/2024 on Urban Development aspects of Trivandrum district in connection with development of Vizhinjam port

4. Annual Family get together on 15.08.2024

The 33rd Annual Family get together function of the Trivandrum Chapter was held on 15-08- 2024 (Thursday) at Hotel Prasanth, Trivandrum. Registration for the programme was started at 5:30 pm. Total of 104 alumni members and family Members and guests attended the programme and a total of 140 persons including family members and guests attended the Family get together function.

The programme started with one minute silence as part of homage to the departed soul of EC members Dr. Krishnamoorthy Iyer and N. Ram and other alumni members and family members left during 2023-24.

The programme started at 6 pm with a prayer by Er. Beena(1984-Electronics).

Er. Vimal prakash (Vice president) welcomed the gathering.

Er. Ramavarma (President) made the presidential address. He emphasised the activities of the Trivandrum chapter and role played by the senior alumni members who built the mission and vision of the chapter and role played by the members to make the chapter vibrant. He also emphasised on the activities made by the chapter during 2024-25 such as registration of the association including receipt of PAN card for the chapter and KYC updation. He also emphasised that Trivandrum chapter ever first time hosted the Ragangali Event on January 2024 .He also emphasised that the chapter also focus on conducting technical talks during EC meetings for the benefit of the members.

The family get together programme was inaugurated by Prof N.Harihara Subramony Retd HOD and Principal, Dept of Civil Engineering, Govt Engineering College Kannur and first batch student of TKMCE by lighting the

lamp.

Er. TC Mathew (1963 Mechanical) introduced the chief guest. The chief guest Prof N.Harihara Subramony made the inaugural address mentioning the experience faced by him during college life at TLMCE as a student .Ha also remarked on the role played by TKMCE in building career for the students passed out from TKMCE. He also remarked on the role of alumni in the college for the support of activities.

This was followed by the release of 2nd edition of annual News letter of TKM Alumni Association Trivandrum chapter for the period 2023-24. Chief guest Prof N. Harihara Subramony released the news letter and handed over the copy of the news letter to the Senior most alumni member Er. TC Mathew.



This was followed by Guruvandanam to Prof. R.Rajan (Former Principal of TKMCE) by President Er . Ramavarma and honoured him by providing memento and ponnada.

Prof. Dr. R. Rajan touched upon his career and growth and highlighted and shared his experience as a Professor in Mechanical dept TKMCE, Kollam and highlighted his teaching experience and the role played by TKMCE alumni chapters for the improvement of infrastructure and betterment of the college.

This was followed by honouring the senior alumni members of Trivandrum chapter who attained 80 years old and above who has not been honoured in earlier functions of Trivandrum chapter.

The following members were honoured during the function

- 1) Er. PAM Rasheed (1967-Mechanical)
- 2) Dr. K Surendran (1966 -Electrical)
- 3) Er. Shukkoor A A (1964-Electrical)

Honouring was done by the by the president and Vice president of Trivandrum chapter.

Reply speech of the senior alumni members was made by Er. Er Dr. K Surendran (1966 -Electrical) made the felicitation speech on behalf of the senior alumni members.

This was followed by honouring the achiever of the

chapter and felicitations by providing with ponnada and memento to Er Sreekala, Chairperson, Kerala State Pollution Control Board. The achievers were felicitated by President, Vice president and & Secretary of TKM Alumni TVM chapter.

Er. Sreekala made the reply speech highlighting that Professors of TKMCE played a major role in building her career in KSPCB and thanked all faculty members and college management for the support rendered to her to achieve a highly respectable position.

The programme was followed by honouring and felicitations to the following 6 Alumni members of the golden jubilee batch (1974 batch) by the office bearers of TVM chapter.

1. Er. Devarajan.R (1974 Electrical)
2. Er. Nuhuman Koya.C.K (1974 Electrical)
3. Er. Boban V.Koshy (1974 Electrical)
4. Er. Mohammed Basheer.A (1974Mechanical)
5. Er. Ramakumar R.S (1974 Mechanical)
6. Er Mohammad Hamza.E (1974 Electrical)

Er. Devarajan. R, convener of the golden jubilee batch 1974 batch made the reply speech on behalf of 1974 batch.

This was followed by felicitation to 3 nos children of alumni members, who secured distinction in exams and placed in respectable positions by Er. G.Vijayaraghavan, former CEO, Technopark and alumni member of TKMCE.

- 1) Dr. Sidharth Sathish MBBS, KUHAS ,Son of Er. Satheesh kumar (1986-Mechanical)Former Group Director LPSC
- 2) Dr. Gokul Devin Prabhakar - Passed MBBS exams and is now doing his housesurgancy at the Kottayam Medical College. He is the Grandson of Er. K.Anil Kumar (1969-Civil) & Mrs. Shobha Anil Kumar
- 3) Abhijith A Nair- B Tech in Computer Science honours from International Institute of Information technology (IIIT) and Gold medallist Worked in Google as Software Reliability Engineering Team at Munich and presently working as Senior Software Engineer at Android Framework team at London,Grandson of Er. Raveendran Nair (1964-Civil)

The parents and Grandparents of the students received honour from Er. Vijayaraghavan

This was followed by introduction of 5 new members during the programme

The following 5 new members introduced during the function

- 1) Er. Venukumar-1977 Electrical

- 2) Er. Kamal Rajan-2006 Mechanical
- 3) Er. Pooja Jayaprakash -2010 Computer science
- 4) Er. Akhilesh BS-2009 Mechanical
- 5) Er. Anjali.A.babu-2021 Electrical

This was followed by felicitation by Prof POJ Lebba Former Principal TKMCE. He touched upon the experience and challenges faced during his tenure with TKMCE as a principal of the college.

This was followed by distribution of gifts to the speakers of TKM Alumni Association who delivered technical talks during EC Meetings by Prof POJ Lebba.

The following speakers and alumnus of Trivandrum chapter received gifts from Prof. POJ Lebba.

1. Dr. Rajendra Babu, 1970 Civil, Former Professor and Head Department of Civil Engineering
2. Er. Anil Kumar Pandala (1976 Mechanical)

This was followed by honouring Prof POJ Lebba by ponada by the President Er. Ramavarma and distribution of gift to the chief guest by the president

The master of ceremony of the function was Er. Bhavya S Nikesh 2023 Batch and she was also honoured by providing gift by Secretary Er. Venugopal.S

Secretary Er. Venugopal.S (1992-Chemical) proposed the vote of thanks during the function.

The programme was followed by Cultural Event includes Music programme of Alumni members led by Symphony KrishnaKumar (1973 Electrical), Dance performance by Er. Gayathri Vijayalekshmi (1984 Electrical) and Semi classic dance by Smt. Girija surendran, Wife of Er. Surendran K (1979 Mechanical) and skit by Er PAM Rasheed (1967 Mechanical) and magic show by Er. Balakumar (1984- Electronics)

The following members of the Trivandrum chapter participated in the cultural programme

- 1) Song by Symphony Er. Krishnakumar
- 2) Dance by Er Gayathri Vijayalekshmi (1984 Electrical)
- 3) Semi classic dance Smt. Girija surendran, Wife of Er. Surendran K (1979 Mechanical)
- 4) Production & Theatre of Good hope (വഴക്കടിച്ചു വഞ്ചി മരിക്കണോ മക്കളേ...) Er. PAM Rasheed and Team (1967 Electrical)
- 5) Duet song - Er. Shajahan (1984-Electronics) & Er. Beena (1984- Electronics)
- 6) Karokke song by – Er. Salim E K (1977 batch)
- 7) Duet song by Dr Jayaraju (1984-Electrical) & Er. Gayathri Vijayaleskhmi (1984-Electrical)
- 8) Karokke song by Er. Beena (1984 batch)
- 9) Magic show by Er. Balakumar 1984 Electronics

The following were the sponsors for the AFGM 2024

1. Er. Vijayadharan (1964- Civil)
2. M/s. Supreme Bakers –Trivandrum
3. Er Sivakumar (1985 Civil) and Mrs Nirmala-Shantinikethan School
4. Er Kesavadas-Vastu Nivas (1968 Electrical)

Buffet dinner was arranged during the function, the programme was over at 09: 30 pm

The annual family get together function ended in a happy note and all the members and guests enjoyed the function and praises about the efforts taken by the Trivandrum Chapter

The following were the 18 New members enrolled during 2024-24 till date (from May 2024 to Aug 2024)

Sl No	Date	Name	Batch/Branch
1.	19/5/2024	Er. Firozkhan	2006 Mechanical
2.	20/7/2024	Er. Devarajan	1974 Electrical
3.	20/7/2024	Er. Ramakumar	1974 Mechanical
4.	21/7/2024	Er. Nuhuman Koya	1974 Electrical
5.	21/7/2024	Er. Winston Paul	1974 Electrical
6.	21/7/2024	Er. Mohammad Hamza	1974 Electrical
7.	21/7/2024	Er. Aby Abraham	1999 Mechanical
8.	22/7/2024	Er. BobanVKoshy	1974 Electrical
9.	11/8/2024	Er. Deepa Sara John	2004 Electronics
10.	12/8/2024	Er. Dhanoop	2008 Production
11.	12/8/2024	Er. Radhakrishnan	1985 Electrical
12.	13/8/2024	Er. Kamal Rajan	2006 Mechanical
13.	13/8/2024	Er. Pooja Jayaprakash	2010 Computer science
14.	13/8/2024	Er. Sreekumar Balachandran	1985 Electrical
15.	13/8/2024	Er. Prem Madhavan	1979 Mechanical
16.	14/8/2024	Er. Akhilesh BS	2009 Mechanical
17.	15/8/2024	Er. Venukumar	1977 Electrical
18.	15/8/2024	Er. Anjali Babu	2021 Electrical





5 Honouring Mr Winston Paul sir , 1974 Mechanical during executive committee meeting held on 25.09.2024

6 Executive Committee meetings

TKMCE Alumni Association Trivandrum Chapter conducted 07 executive meeting during the above said period.

The executive committee members express sincere thanks to all chapter members who made the activities during the tear 2024-25 a grand success.



RAMAVARMA
PRESIDENT

VENUGOPAL.S
SECRETARY

OMAN CHAPTER

New Year Farm House Party in Jan'24 :

TKM Oman family welcomed the New year with a relaxing Farm house get together. A lot of entertainment programmes and games made the day excited and vibrant.



KEF Sports for Kerala Engineers Family (KEF) in Jan'24

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 and cricket runners up.



KEF Carnival in Feb'24

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.



Iftar in March'24

Tkm Oman family has a strong bonding within and hosts Iftar during Holy month of Ramadan. A health talk also was organized during this occasion.

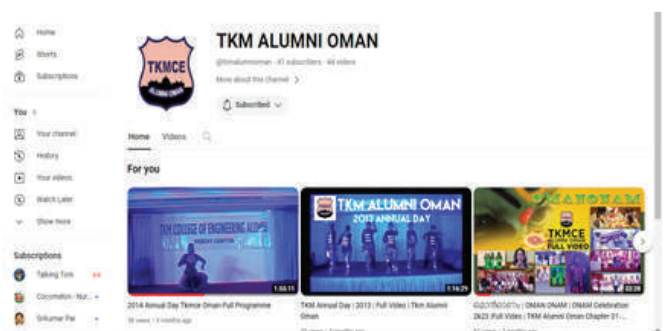


YouTube channel for TKM Oman :

A YouTube channel for TKM Oman was launched in September

so that all the Programme videos can be viewed by anyone from one platform. Over the last many years we had conducted various programmes and these will be uploaded into this channel. The link to the channel is :

https://youtube.com/@tkmalumnioman?si=j_H44tV-9KYiEJ-dk



Raganjali, Theme Music :

The international music programme initiated by TKM Oman, named Raganjali, has continued in the year and new chapters came forward to host the programmes, strengthening the international bonding. Tkm Global Music club has launched a Theme Music for Raganjali and it was developed by Er.Anilbabu from Tkm Oman.



TKM Muscat Kerala wing meet in July'24

Members who returned to Kerala from Oman continues their bonding through the Kerala wing and meet frequently. An exciting meet was conducted in Contour. It was a one day programme with chit chats



Family Quiz Programme for Kerala Engineers Family (KEF) in August'24:

This is a flagship programme of TKMCE Oman chapter being conducted annually with all other Engineering college Alumniees in Oman. It's a brain storming session and there was a record participation with 40+ teams from various college Alumniees competed.



Technofest in Aug'24 :

TKM team has actively participated in KEF's Technofest , which was for the first time in the history of KEF. Several Entrepreneures met in the meet and shared their experience in business.



Industrial experts took educative sessions.

KEF Annual day in Sep'24 :

Annual day of KEF is a great occasion to strengthen the relationship between friends and families across the colleges. Malayalee Engineers work in various organizations at various positions and help each other.



TKM Lady Bird Onam in Oct'24

Lady Bird, ladies wing of TKM Oman is the pillar of TKMCE Oman chapter. They are equally or more than men in all the activities. Their Onam celebration this year was unique with men were special guests.



Onam and Annual day “Arpponam” in Oct’24

Onam is Malayalees’ pride and Tkm family in Oman makes this as another opportunity to meet and celebrate in own style. Our youngsters are our strength and their ideas are beyond our imagination. We have combined our Annual day also with Onam, to make it more colourful. New officials were assigned in AGM.



TKM Muscat Kerala Trip in Oct’24

Family members of TKM Muscat Kerala wing had a chilling trip to Peerumed. It was reminiscent to college tour as the group travelled in a bus and stayed at Peerumed.



Europe trip in Nov:

TKM Oman family always enjoy trips together. Complete relaxation and enjoyment are the outcome of such trips. This time we made a Europe trip covering Netherlands, Germany and Austria. Wonderful time together, reminding our Study tours during college time.



National Day Trip in Nov’24:

National day was celebrated by our family by conducting an overnight trip to Jabel Akthart. It was a joyful time spending the holidays together.



New Office bearers:

New Office bearers have been selected during the Annual day event.

President-Er.Rafeek.S , Vice President- Er.Midhun.S.-Kumar, Secretary- Er.Mohit Pillai, Treasurer- Kiran.T.-John, Jt.Secretary- JabirAhammed Vishnu.G.R-Programme Co-Ordinator, Rajiba Naushad, Divya Mrinal, Leena Prasobh – Alumni Co-ordinators. Anil Babu-KEF Vice President, Tara Chandy-KEF Academic Chairman, Visam Sagar- KEF Entertainment Vice Chairman

Er.E.M.Ashraf is our lifetime Patron. He continues to guide us.

TKM ALUMNI OMAN CHAPTER			MEET OUR OFFICE BEARERS (2024-2025)		
 E.M.Ashraf PATRON	 Rafeek Sulaiman PRESIDENT	 Mohit Pillai SECRETARY			
 Anil Babu KEF VICE PRESIDENT	 Tara Chandy KEF ACADEMIC CHAIRMAN	 Visam Sagar KEF ENTERTAINMENT VICE CHAIRMAN			
 Kiran T John TREASURER	 Midhun S Kumar VICE PRESIDENT	 Jabir Ahammed JOINT SECRETARY			
 Vishnu GR PROGRAM COORDINATOR	 Rajiba Naushad ALUMNI COORDINATOR	 Divya Mrinal ALUMNI COORDINATOR			
	 Leena Prasobh ALUMNI COORDINATOR				

SAUDI CHAPTER

THE ANNUAL GATHERING AT YEAR-END FEATURES THE PRESENTATION OF ANNUAL REPORTS, FINANCIAL REPORTS, AND THE ELECTION OF OFFICE BEARERS DURING THE GENERAL BODY MEETING

TKMCE SAUDI ALUMNI
COMMITTEE MEMBERS (2023-24)




 President Srihari Sivadas (Mech-2005)	 Vice President Navas Salahudeen (Civil - 1997)	 Gen. Secretary Muhsin Muhammed (Civil - 2001)	 Treasurer Reshma Noushadali (B. Arch - 2002)
 Joint Secretary - Central Region Jikku Rajan (Mech-2010)	 Joint Secretary - Western Region Najaf Imdad (EEE-2006)	 Joint Treasurer - Eastern Region Muhammed Aslam (Mech Pro-2000)	

Executive Members

Anwar Latheef	Sunil G Pillai	Prajeesh K P
Sanjeev Sreekumar	Suresh Rawther	Muhasin Vayatt



WINTER GATHERING

TKMCE SAUDI ALUMNI CHAPTER

തണുത്തുറഞ്ഞ ഓർമ്മകളെ ഉഷ്മളമാക്കാൻ
മൗലാബുത്തിലൊരു നാലാഹം.

WINTER CAMP

Program Schedule

01 FEB Dammam (Eastern Region)	02 FEB Riyadh (Central Region)
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• Bonfire • Games • Dinner • Other Activities





TECHNICAL SESSOINS



ARPOO 24 ONAM GATHERING 11-OCT-2024

RAGANJALI 14TH EDITION





SMASH RESULTS



UAE CHAPTER

Other Office Bearers 2024

Vice President - Muhammed Shibu

Vice President (Regional) - Asif Rasheed

Joint Secretary - Anitha Kasim

Secretary (Regional) - Nazar Abdul Salam

Joint Treasurer - Saibi Dev

Treasurer (Regional) – Jayakrishnan

Events Held in 2024

1. Twilight Meet: A picnic and camping event Held on 24th February 2024, at Yacobs Village, Helio, Ajman, featuring live food, songs by the music team, Tug of War, games and a DJ. The diverse range of attendees spanning from the 1970 batch to the 2023 highlighted the enduring bond of friendship that transcends generations.

2. Iftar functions: Two grand iftar gatherings were held in Dubai & Abu Dhabi on 19th & 23rd March 2024 respectively with over 600 participants. The event in Dubai was featured by an enlightening speech by Dr. Shabeer Ahmed on the topic 'Gut Health & Fasting'. We also participated in the Dubai Police campaign "Ramadan without Accidents" which was conducted for a period of 3 days from 28th March to 30th March with over 20 members volunteering for the Iftar kit distribution.

Office Bearers 2024 (PST)

PRESIDENT



SAJI AS
(1990 CE)

GENERAL SECRETARY



SAJEER SHAHUDEEN
(2000 ME)

TREASURER



SARATH BALAN
(2005ME)

3. International Tours: Two separate tours were organized in 2024. First one was a 4-day trip to Almaty, Kazakhstan on 9th April with 45 participants and another tour on 9th August, to China, Macau and Hongkong for 12 days with 29 participants.

4. SPORTECH 2024: An annual sports meet with over 250 participants held over 2 weekends (21st and 28th April 2024) at Bright Learners Private School & Amity University, Dubai respectively. It featured a variety of competitive athletic & sports events. 4 Teams (Randomkuty Warriors, Moonamkuty Blasters, Kuttichira Stars, Karicode Challengers) competed against each other and in a nail biting finish Moonamkuty Blaster clinched the cup in both Adults & Kids Categories.



5. Movie Night in Dubai & Abu Dhabi: held on 31st May in Dubai & Abu Dhabi with over 105 participants screening the movie "Once Upon a Time in Kochi," a movie produced by alumnus Mr. Kalandoor (1988-ME).

6. Blood Donation Camp : 2 Blood donations camps were held in Abu Dhabi & Dubai on 21st June & 10th November with over 30 participants.

7. TENX - Entrepreneurs Meet: 2 Entrepreneurs meet were held on 23rd June 2024 and on 30th Nov 2024 at Le Meridian Hotel, Dubai. These were networking events for entrepreneurs within the alumni community with over 17 presentations from various companies from our Alumni network. The events were attended by the Entrepreneurs along with Mr. Tiny Philip (Business Leader & Consultant) with his enlightening seminars, Mr. Faisal Malabar (Renowned Business Leader & Social Media Influencer, Mr. M.A. Nishad (Movie Director, Producer, Script writer, Actor), Mr. Biju Prabhakar IAS speaking on the topic "Investment Opportunities in the Sectors of Power & Aviation". The second day included panel discussions, Business Presentations and networking sessions followed by Dinner with the Guests, Trust Chairman and Principal.



8. Onappulari - Onam Celebrations 2024: Held on 29th September at Woodlem Park School, Ajman with over 650 participants. It was a grand Onam celebration with traditional events and competitions. The sight of everyone in traditional attire, celebrating our rich cultural heritage through various programs, created an atmosphere of nostalgia and joy.



9. 2 Seminars on Corporate Tax & Career Guidance were held online with over 150 participants. It was conducted by Mr. Shihab Thangal (Founder and Director of Tamim Chartered Accountants) and Mr. Jalil MS (Director of Career Guru).

10. Engineers Premier League (EPL): A cricket tournament with 20 teams divided into classic and master categories. The event was held on Vision Cricket Center, Sharjah and spanned seven weeks starting from 13th October and culminated with grand finals held on 24th November 2024.



11. Participation in KERA Onam (KEROTSAVAM) on 20th October 2024 at Al Nasr Leisureland Ice Rink, Dubai. Over 200+ Alumni and families competed in events such as Athapoo, painting, dance competitions, and mega Thiruvathira. The team won the first prize in the Children's Dance Competition.

12. Spice & Symphony : Held on 26th October, at Al Lazaz Stable & Resort, Abu Dhabi, and attended by 140 members, it was an evening of cultural performances paired with a cooking competition to celebrate culinary skills and artistic talent.



13. TKMCE Badminton League: A badminton tournament held in memory of alumnus Asif Mahamoud was held on 9th November at Repton School, Al Reem, Abu Dhabi. There were over 70 participants.



14. JASHAN 2024: Annual Meet 2024 was held on 1st December 2024 at Le Meridien Hotel, Dubai. It was a grand meet featuring cultural events, an official meeting, and an interactive session with playback singer Mrs. K.S. Chithra. Other attractions included a dance program (Kalolsavam), a musical show by Mrs. Roopa Revathi, and participation by dignitaries such as the Mr. Biju Prabhakar IAS (KSEB CMD), JanabShahal Hasan Musaliar (TKMTrust Chairman) and Dr. Sajeeb Riza (Principal, TKMCE). There were over 600+ members.



MUMBAI CHAPTER

The TKM Alumni Mumbai Chapter was established in January 2021 and is one of the youngest chapters under the TKM Alumni, with the following office bearers: President : Mr Reghu Damodaran (1985 Mechanical Engineering) Vice President : Mr Anil Kumar 1993 Mechanical, General Secretary : Mr John Abraham 1986 Civil, Assistant Secretary : Mr Rajesh Mohan (1991 Electrical and Electronics) Treasurer : Ms Nisha Sarath (2000 Civil) Executive Members : Mr Radhakrishnan (1985 Electrical) Mr Pradeep S (1986 Mechanical) Mr T J Jacob (1989 Mechanical) Dr Mini Rajeev (1990 Electrical)

The chapter is dedicated to strengthening the bond between alumni and their alma mater, while actively engaging in socially relevant charitable initiatives.

In the 2023-2024 period, the chapter continued its focus on charity work, providing financial assistance to a shelter home for the underprivileged and distributing educational kits to deserving school students. Support for the fees of needy engineering students is also planned.

The Mumbai Chapter of TKMCE Alumni successfully held its 2nd Annual General Meeting along with a family get-together on April 7, 2024. The event was attended by over 100 people and featured a variety of cultural programs with overwhelming participation from alumni and their families. A highlight of the event was the "6th Sense" magic show by Lt. Cdr. Praveen C. A., a renowned mentalist and TKMCE alumnus from the 1985 batch, currently based in Dubai. The show was enjoyed by all attendees.

The Managing Committee expresses its gratitude for the guidance and support extended by the College Management, the Honorable Principal, the faculty, and the Alumni Coordination team towards the Mumbai Chapter.



BANGALORE CHAPTER

In 2024, TBAC (TKM College of Engineering Alumni Association, Bangalore Chapter) marked a transformative year with notable milestones and impactful initiatives. The dynamic managing committee spearheaded efforts to revitalise the association and foster stronger alumni engagement. The office bearers included Hari M K as President, Raj V V and Vignesh Rajesh Babu as Vice Presidents, Nahas Bin Abdu E K as General Secretary, and Shiji V S as Treasurer. A significant highlight was the introduction of a new identity for TBAC through a professionally designed logo and the successful registration of the association, providing a legal framework for future expansion and credibility.

A landmark event, Samaveta'24, was held on February 25, relaunching TBAC with enthusiastic participation from alumni across batches and the esteemed presence of TKM Trust Chairman Janab Shahal Hassan Musaliar, trust members, and TKMCE officials. This grand occasion featured inspiring speeches, cultural programs, and networking opportunities, underscoring TBAC's renewed mission to strengthen alumni bonds. Additionally, TBAC introduced specialised support committees, including the Career, Professional, and Entrepreneurship Support Committee, which facilitated career development, job placements, and entrepreneurial networking. The launch of the TBAC Connect Initiative, encompassing referral campaigns and professional talks like TBAC Connect X, further established the association as a vital platform for personal and professional growth.

Looking ahead to 2025, TBAC plans to expand its initiatives by organizing larger-scale events, enhancing collaborations with TKMCE, and exploring partnerships with other alumni chapters. With these plans, TBAC is poised to build on its 2024 achievements, fostering a thriving, connected, and impactful alumni community.

COCHIN CHAPTER

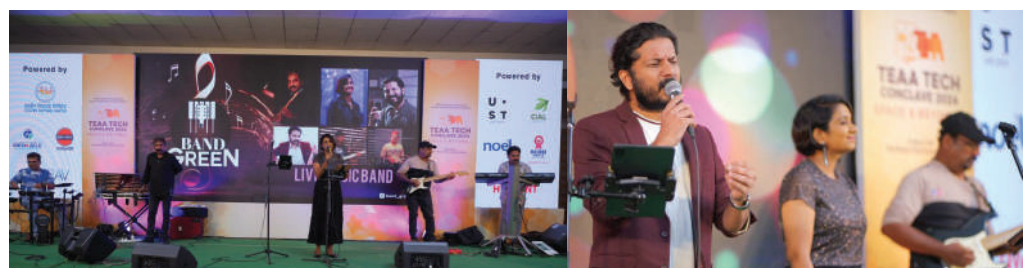


Elected Executive Members of TEAA along with Chief Guests Dr. S Somanath (Chairman, ISRO) & Prof. POJ Labba in the 26th AGM held at the Renai Hotel, Kochi on 11th May 2024.

President – A R Satheesh (1985 E), Vice President - Ishach S (1989 M), Secretary General - Jyothi Lekshmi C (1992 C), Jt. Secretary -Ar. Mahesh G (2004 A) & Treasurer- Saaj U S (2005 Ch)



Honouring 1975 Batch on their 50th year of Graduation





Tours – Mango Medows

TKMCE ALUMNI ASSOCIATION COCHIN CHAPTER
invites you with Family for our **ഓണസംഗമം**

വസന്തസംഗമം
Vasanthasandhi - 2024
29 Sep | 10 am | Sunday
Engineer's Club, Vennala, Kochi

GUEST OF HONOUR

Er. BEJOY BHASKER
 Director (Technical)
 Cochin Shipyard Ltd

Dr. JAGATHI RAJ V P
 Vice Chancellor
 Sree Narayana Guru Open University

CLASSICAL DANCE PERFORMANCE by Prof. Gayatri Vijayalakshmi

HINDI READING SHOW BY Mentalist, Lt. Cdr. Praveen C A

M Mathrubhumi മാതൃഭൂമി

തെന്തുകുട്ടി ടി.കെ.എം.സി.ഇ. പൂർവ്വ വിദ്യാർത്ഥികൾ

03/10/2024 KOTHAMANGALAM-MUVATTUPUZHA Pg.02



Tours – SDSC – Sriharikota – SpaDeX Launch



Signed MoU with Aster Medcity and Rajagiri Hospital for discounted Treatment for Members



Introduced Life Member Card



- Kochi Chapter sponsored TKMCE FC for Inter Engineering College Alumni Football Tournament organized by RIT
- Senior Team was Runners UP



Had Regular Monthly Ex Com Meeting

QATAR CHAPTER

The Thangal Kunju Musaliar College of Engineering Alumni - Qatar (TKMCEAQ) has had a remarkable year, filled with impactful events, strong community engagement, and significant contributions to the welfare of our members and the society at large. This report highlights the activities undertaken during the year and reflects on our accomplishments, challenges, and plans for the future.

I. Social, Sports and Cultural Events

I. IFTAR-2024

A spiritual and social evening program which we conduct during the month of Ramadhan, members with family members attend this function with great enthusiasm and spiritual mood for breaking the fast and followed with dinner. The event is felicitated with an external speaker Mr. Yasser Arafat to convey the message of importance of Ramdhan.



II. TALENT HUNT

The Internal Talent Hunt for kids was a vibrant event where children showcased their singing, dancing, and speaking talents. It provided a platform for young participants to express their creativity and confidence, celebrating their skills in music, movement, and oratory. The initiative encouraged self-expression, cultural appreciation, and helped children gain recognition for their unique abilities in a fun and supportive environment.



III. PONNONAM 24:

To celebrate the spirit of Onam with vibrant cultural programs, including a delicious payasam competition, traditional contests like "Malayalee Manga" and "Mannan," along with exciting Onam games. The event also honored academic excellence by presenting awards to outstanding 10th and 12th-grade students.



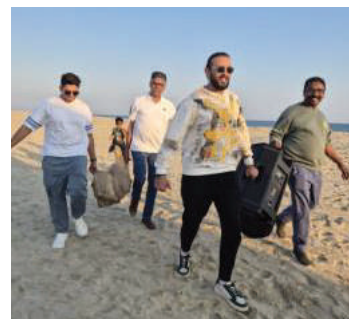
IV. BOX BASH:

The Box Bash was a lively box cricket event that brought together alumni from multiple colleges for an exciting day of sportsmanship and camaraderie. Teams comprised of enthusiastic players competed in thrilling matches, showcasing their cricketing skills in the unique box cricket format. The event served as a platform for networking and reliving college memories while fostering friendships among alumni from different institutions.



V. DESERT CAMP (Midnight Mirage 2024) :

The Desert Camp was a magical overnight adventure under the stars, filled with fun and excitement. Participants enjoyed a variety of activities, including dune bashing, cultural performances, stargazing, and bonfires. The evening was complemented by delicious local cuisine and lively games, creating unforgettable memories in the serene desert landscape.



VI. INTER ALUMNI EVENTS

The annual sports extravaganza witnessed enthusiastic participation from over 300 alumni members and their families. The event fostered camaraderie and promoted a healthy lifestyle through competitions in cricket, badminton, and volleyball.

VII. KHEL FEST 2024-2025

The internal bi-annual sports event of TKMCEAQ is a highly anticipated occasion, bringing together alumni members from all around to participate, celebrate, and enjoy a variety of fun activities. With over 300 registrations, including families of members, the event is set to feature 25+ engaging activities, ranging from games to athletics, creating an exciting atmosphere of competition and



Jersey launch at Radio Suno Station



camaraderie. The celebration mode is in full swing, with daily practice sessions getting everyone involved and active. The chilled weather in Qatar adds a refreshing element to the excitement, making this event a memorable experience for all participants.

2. Professional Development Initiatives

Workshops and Seminars: Conducted sessions on topics such as:

- The Journey: Professional to Entrepreneur

Mohamed Shabeeb, National Director at BNI Qatar, shared his personal journey of transitioning from a professional career to entrepreneurship. He highlighted the challenges, lessons, and key strategies for making the shift, offering valuable insights on building a successful business. Shabeeb inspired aspiring entrepreneurs to embrace the journey with determination, resilience, and a growth mindset.

- Angel Investing Made Easy

In her speech Shanti Mohan, Founder of LetsVenture & Trica, demystified the world of angel investing. She provided valuable insights into how individuals can get started with angel investing, the key factors to consider, and the potential rewards and risks involved. Shanti offered practical advice on making informed investment decisions, empowering aspiring investors to navigate the startup ecosystem with confidence.

- Relinquish Control

Our Alumni member Soumya Vijay, a Life, Leadership, and Executive Coach, explored the impact of control on our personal and professional lives. She delved into the reasons behind our desire to control, how it shows up in corporate meetings, and its effects on personal relationships. Soumya offered practical insights on identifying and navigating life by letting go of control, fostering growth, peace, and deeper connections.

SINGAPORE CHAPTER



2024 January Sg Alumni kick off and get together



Tkmsg chapter felicitated the new principal at his office, Tkmcce Kollam



Our members



Shaji Philip
Chairman
Ctd-1991



Indulekha P L
Vice-Chairman
Ctd-1994



Shihana Salahudeon
Secretary
Ctd-2001



Sameer Javad
Asst-Secretary
MCA-1997



Joy Kutty Mathai
Treasurer E&E
1990



Khalid Rafi
Technical Coordinator
Pra-1997



Saima Rasheed
Cultural Secretary
MCA-2006



Shiby Mathew
Cultural Secretary
March-2002



Jovi Jacob
SG Alumni Coordinator
March-1988



Dhanya S
Event Coordination
E&E-2002

Tkm alumni Singapore chapter proud moment as its chairman received the Guinness record in Cricket at Senkang Singapore



AUSTRALIA CHAPTER

Inaugural Function of TKM College of Engineering Australian Chapter Alumni Association

On the 10th of August 2024, the TKM College of Engineering (TKMCE) proudly inaugurated its Australian Chapter Alumni Association in Sydney. This landmark event marked a significant milestone in the college's history, fostering a stronger

bond among its alumni residing in Australia and enhancing their connection with their alma mater.

Venue and Attendance

The event was held aboard the luxurious Clearview Glass Boat Lunch Cruise in Sydney, offering a unique and picturesque setting for the occasion. The cruise provided stunning views of Sydney Harbour, adding a touch of elegance and charm to the event. A total of 80 people, inclusive of alumni from various batches and their families, attended the function. Distinguished guests included Dr. Sajeeb, the Principal of TKMCE, Dr. Sudheer A, the Dean of Global Alumni Affairs, T.K. Akbar Hyder Musaliar, and Khais Musaliar from TKM Management, who travelled from India to grace the occasion.

Opening Ceremony

Contrary to the usual, the inaugural function commenced with a cake cutting ceremony by the distinguished guests from India, which presented a freshness to the overall program.



Speeches and Addresses

Dr. Sajeeb R delivered the inaugural speech, emphasizing the importance of alumni associations in fostering a sense of community and collaboration. He highlighted the achievements of TKMCE and its alumni, urging them to contribute to the institution's growth and development. Dr. Sudheer A. spoke about the global alumni network and the various initiatives undertaken to strengthen the

bond between the alumni and the college. T.K. Akbar Hyder Musaliar and Khais Musaliar also shared their insights and expressed their support for the alumni association.

Vineeth Jayan (2006 Mechanical) delivered the presidential speech, sharing the story of the inception of the association in the form of a small WhatsApp group and its growth into an officially registered incorporated association in New South Wales, Australia. He also shared his vision of future growth and activities planned as part of the association.

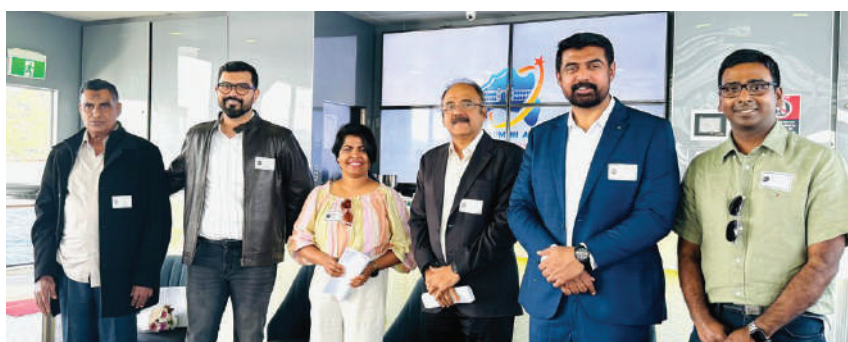
Logo Competition and Official Launch

Prior to the inaugural function, a logo competition for the association was conducted, encouraging alumni to contribute creatively to the identity of the association. The winning logo designed by Gayika (2006 Civil) was unveiled during the event by T.K. Akbar Hyder Musaliar, adding to the excitement and sense of ownership among the members. The official launch of the logo of the association was also a significant part of the inaugural function, marking the formal establishment of the association.



Cultural Performances

The event featured a series of cultural performances that showcased the rich heritage and talent of TKMCE alumni. musical renditions, dance performances etc were some of the highlights. These performances not only entertained the audience but also rekindled fond memories of the college days.





Networking and Interaction

One of the key objectives of the event was to provide a platform for alumni to network and interact. Special networking sessions were organized, allowing alumni to reconnect with old friends and forge new connections.

Universities Collaboration

A delegation from TKM College of Engineering, led by Principal Dr. Sajeeb R, visited the University of Newcastle, Australia and Western Sydney University, Australia, accompanied by key representatives including Dr. Sudheer A. and Mr. Khais Musaliar and Mr. Irfan Malik. They engaged in high-level discussions with the Universities, resulting in several key outcomes such as an upcoming MOU signing, student internships, and research collaborations. The visit concluded with a campus tour and the exchange of gifts, highlighting the warm hospitality of the Universities. The Western Sydney University offered its full support for development of startup culture and to give guidance in transforming TKMCE to a sustainable green campus.



Conclusion

The inaugural function of the TKM College of Engineering Australian Chapter Alumni Association was a resounding success. It not only celebrated the achievements of the alumni but also laid the foundation for a vibrant and active alumni community in Australia. The event offered a sumptuous lunch on the cruise, where attendees continued to share their stories and reminisce about their time at TKMCE. The event concluded with a vote of thanks by Jomon Varghese (1997 Chemical).

This inaugural event had set the stage for future activities and collaborations, ensuring that the bond between TKMCE and its alumni continues to grow stronger with each passing year.



KUWAIT CHAPTER



Onam celebration : Onam celebrated in traditional style at a desert picnic chalet with sumptuous sadya . Music , dances , onam sport events adds glory to the day.

New year celebrations : This Night the members gather with family to wish everyone a happy and healthy New Year, celebrating the end of one year and the beginning of another hopeful year with new aspirations and fresh thoughts. On this celebration, TKMCEAA engage in traditional dances, singing and other cultural events like drama etc. conducted from the in-house talents fostering deep and innate relationship among the members.

BBQ Night : TKMCEAA ensures that all its members are given the privilege for an “Away day” at a refreshing resort to keep them away from their daily chores and worries. This night is a special event where all the members participate together and bring in a share of their home prepared and marinated foodstuff to light up a wonderful evening. Games for the Kids, Adults , Cycling and many other activities follow on the usually 2 day program. One of the most enjoyable programs of the TKM calendar.

Picnics : It’s time to chill out. TKM Family takes a break on an evening program in a park or entertainment venue where the families meet to share their emotions and thoughts and with a few games to keep the kids on their toes. Moments of togetherness!!!

Ladies club activities : TKMCEAA Ladies Club formed in 2011 has actively engaged in forming a very strong and cohesive team to ensure that the Alumni activities are kept running smooth. Various Cultural, Safety, Health and Cookery activities are conducted under their umbrella in addition to their contributions in all other activities conducted by the Alumni.

Road trips : Current schedule is “ Bahrain road trip ” with the theme “ adventure is just a ride away” . Kuwait city – Dammam – Manama.

International trips : to unwind after a year long work schedule , tknceaa organizes group trip to eu/ Scandinavian countries, cruises depending on members choice .

AGM : it’s the time to handover the batten to a new team who are willing and capable of running the Alumni events and even taking it to new Glory and heights. The Finance report is presented and put forward for the acceptance of the Alumni members. The new team members for the upcoming year will be announced by the Outgoing President and presented for the Approval of members.



GERMANY CHAPTER

TKMCE Germany meet up

Grand kick off meeting arranged at "Jugendherberge

Bad Tölz" Germany on 7th December 2024 to discuss the official formation and inauguration of TKMCE German Chapter. The meeting had an overwhelming response of more than 45 Alumni participants from Germany, led by the stalwarts, Anand PS of 1996 ECE and GirikrishnanRadhamma of 1999 ECE batch.



US CHAPTER

An Alumni Meetup of TKMCE was held at Austin, Texas in December 2024 which was a heartwarming and nostalgic gathering, bringing together alumni from the classes of 1984 through 2009.

Hosted as an informal and fun-filled event, the meetup provided an excellent opportunity for former students to reconnect, reminisce, and celebrate their shared memories.



CENTRAL TRAVANCORE CHAPTER

The Chapter conducted 25 year Anniversary of Central Travancore Chapter on May 1st 2024 honouring members. Chief guest was Dr Jagathy Raj, VC, SN Open University.

Former Principal POJ Labba, Dr Shahul Hameed, Principal, TKMCE and Dr Sudheer, Dean, TKM Alumni were also present. Also conducted a One day Trip to Kutticknam, Peerumed 26th October 2024.

OFFICE BEARERS



President
Er. George Mathew



Secretary
Er Binu Alex



Treasurer
Er Mathew Koshy



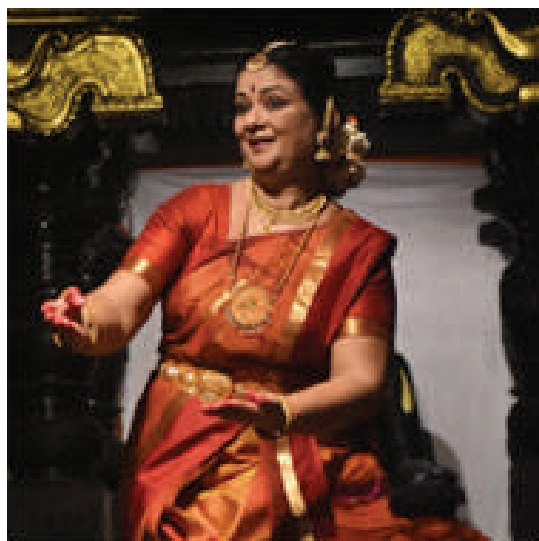
TKMCE GLOBAL MUSIC CLUB

TKMCE Global Music Club was 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 our families for displaying their talents.

Music Club has been getting excellent support from Alma mater, especially Dr.Sudheer, Dean of Global Alumni activities, who himself is a wonderful singer. This platform helps to increase the connectivity between various Alumni chapters as well.

Sreekumar B. Nair
TKMCE Global Music Club



Gayathri Vijayalekshmi graduated with a degree in Electrical Engineering from TKM College of Engineering in 1984 and completed her M.Tech from the College of Engineering, Thiruvananthapuram (CET), in 1986. She began her career as a lecturer in the Electrical and Electronics Engineering (EEE) department of TKMCE in 1986 and retired as the Head of the Department in 2018, having dedicated 32 years of service to the institution. After retirement, she pursued her passion for Bharatanatyam and has been an accomplished dancer for the past nine years, performing in 149 stages. Her 100th performance was at the Sabarimala SreedharmaSastha Temple, where she made history as the first female performer at the venue. This achievement earned her a place in the India Book of Records (Limca). She has also received several prestigious awards, including the Bharath Sevak Honour Puraskar and the Jawahar Puraskar, in recognition of her contributions.

ALUMNI ACHIEVEMENTS

Centre for Robotics (C-rob) of our college organized a Robotic Extravaganza , ROBOCUP 2025 on 17 th and 18th January 2025.

It is expected to bring together the brightest minds in Robotics from schools and colleges across the state. An EXPO of Robotics projects and Competition of Robots including Race, War, Games and so on created not only a visual experience but also learning.



കേന്ദ്ര വികസന ഏജൻസിയുടെ കൗശലീയ നടക്കുന്ന നോമ്പിടീ ക്യാമ്പിൽ നിന്ന്

നൂതന കാഴ്ചയൊരുക്കി ടികെഎമ്മിൽ റോബട്ടിക് ഫെസ്റ്റ്

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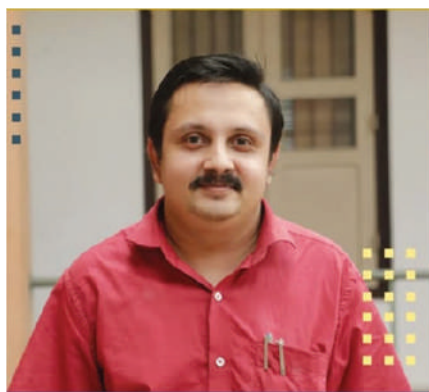
TKM College of Engineering academic team had a detailed discussion with the Professors of NIT Srinagar on 16th January 2025. Dr. Shabir A Sofi (Head of Dept. of IT), Dr. F.Q. Mirfasil (Head of Dept. of Chemical Engg) and Dr. Mohammad Ahsan Chisti (Head of Dept. of Computer Science) had interactions with their peers at TKMCE to initiate joint academic and research collaborations.



In continuation with the MoU signed between TKM and the Marshall University, USA, Dr. Nandini Manne (Associate Dean of Assessment & Accreditation, Marshall University) visited the TKM institutions and held discussions with the Management, Heads of institutions and Faculty.



Dr. Ali TorabiHaghighi, leader of Hydrosystems Engineering Research group of Water, Energy and Environment Unit of University of Oulu, Finland visited our institution on September 3-4 , 2024. Dr Ali provided internships to two Civil Engg students of our institute.



Dr. Adarsh S (Professor, Department of Civil Engineering), Dean Academics of TKM College of Engineering, has elevated our Institutional records to one of the most prestigious "NATURE" Platform. The idea on novel concept for landslide risk mapping in the context of Wayanad Landslides developed by Dr. Adarsh and his research scholars appeared in the Internationally reputed science journal "NATURE" (Impact Factor: 50.5) (<https://www.nature.com/articles/d41586-024-02752-4>). Moreover his most recent collaborative research work on Wayand debris flow, with eminent researchers across Globe from different prestigious universities also appeared in "npjNatural Hazards" (<https://www.nature.com/articles/s44304-024-00044-5>).

ALUMNI ACHIEVEMENTS



Team ISHRAE TKMCE shines bright once again! A huge round of applause to AbaanPalli (M8B) & Siddharth Krishna (M6C) for securing 2nd position, and Satvik G (M6C) & Gopika V Nair (M6C) for clinching 3rd position in the thrilling AQUEST 2024 Inter-College Chapter-Level Quiz Competition conducted by ISHRAE Trivandrum Chapter!



Rear Admiral BR Menon (Retd.), our alumnus of 1964 Mechanical batch, and an active member of TKM 60 plus, visited the campus and delivered a wonderful lecture to our students on "National security, patriotism and leadership".



Bhadra J R, third-year student in Electronics and Communication Engineering, has successfully completed the one-year Women in Tech program offered by NXP Semiconductor. She was selected as one of the 60 participants from a competitive pool of more than 8,500 applicants nationwide last year. NXP's Women in Tech Program serves as a significant initiative promoting diversity and innovation, with the objective of empowering female engineering students throughout India.



TKM College of Engineering (TKMCE) and Sreenarayanaguru Open University (SGOU) have signed a Memorandum of Understanding (MoU) to offer certificate courses under the initiative of Centre for Artificial Intelligence TKMCE.



SAE TKMCE is thrilled to announce the results of the SAE Bicycle Design Challenge (6th Edition) held at Knowledge Institute of Technology, Salem. Our team, Spox, secured AIR 1 in the "Best Dynamic Performance" category, winning a cash prize of Rs 10,000.



Dr. Ansamma John, Professor, Department of Computer Science and Engineering, has been designated as the Vice Principal (Academics) of TKM College of Engineering along with Dr. K.A. Shafi, Vice Principal (Administration & student affairs).



Trivandrum on 17th November 2024.

Razin Moyi ANK & Yadu S Rajeev from TKM College of Engineering won the *First prize* during the Grand Finale of IEEE DAY PES QUIZ Competition, held at College of Engineering

ALUMNI ACHIEVEMENTS



Dr. Ramaswamy K.P (Professor, Department of Civil Engineering) has been designated as the Coordinator of the Centre for Quality Assurance and Ranking (CQAR) in TKM College of Engineering.



Dr. Baiju V, Assistant Professor, Department of Mechanical Engineering, TKMCE- has successfully guided FOUR PhD graduates under APJ Abdul Kalam Technological University in a short span of time.



Dr K BijunaKunju, Senior Professor & former Head of Department of Electrical and Electronics Engineering, has been designated as the Head of the Centre for Quality Assurance and Ranking (CQAR) of TKM College of Engineering.



We are thrilled to announce the granting of the 4th patent to Dr. Sadiq A, Professor in Mechanical Engineering and Dean

(Industry Connect, Entrepreneurship and Business Development) at TKM College of Engineering. This time, the patent is for a remarkable medical innovation titled 'A Device for the Hearing Impaired' (Patent No. 539389, Application No. 20204 100 1204)



Dr. Priya K L (Associate Professor, Department of Civil Engg) has been designated as the Dean (Research) of TKM College of Engineering.



We are incredibly proud to share that Ar. Mariya Joy, from the Class of 2024, B.Arch., Department of Architecture, TKMCE, was declared the Winner in Category B - Social Concerns (Zone 5) for her thesis titled 'Does a city need a backyard? The case of Brahmapuram' at the National Awards for Excellence in Architectural Thesis 2024, organised by the Council of Architecture on 10th October 2024.



Mr. Althaf M., Asst professor, Department of Civil Engineering, TKMCE has successfully defended his thesis titled "Deep Learning-based Predictive Models for the Stress Concentration Factor of Offshore Tubular Joints" under the guidance of Prof. Yogesh M. Desai at IIT Bombay.



ASME TCMCE has been honoured with the Distinguished Student Section Award for the year 2023-24.



The Biomedical Engineering Research Lab (BERL) at TKM College of Engineering has achieved a significant milestone by designing and fabricating its first chip. This chip, crafted using 130 nm technology, integrates a threshold-based filtering mechanism with peak detection, showing promise in detecting arrhythmias through ECG signals, potentially enhancing patient care. This project, led by Dr. Nissan Kunju, Associate Professor in the Dept. of Electronics and Communication Engineering, and supported



by Prof. Ganeshnath R and Dr. Arun A V, was brought to life by final year B.Tech students Abhijith K, Akhilesh S, Mohammed Anas M, Mohammed Salman Farizi, Suryan K S, and Vikas K.

ALUMNI ACHIEVEMENTS



Chairman Janab TK Shahal Hassan Musaliar has been bestowed with the prestigious American Book of World Records award, recognizing his exceptional

achievements. Dr. M. Haroon, our esteemed trust member and nephew of our chairman, graciously accepted the award on his behalf at a grand ceremony held in Crowne Plaza, Dubai, UAE on August 24, 2024.



Chairperson of ASME Students Chapter, Sarath S S (2020-24 ME) who has secured the ASME Student Section Recognition Program's 'Star Chair Award'.



NSS TKMCE has always been proud of its volunteers' work and determination year after year in making this world a better place. And adding yet another feather to its cap, Anjana K. Mohan, from Unit 174 of the

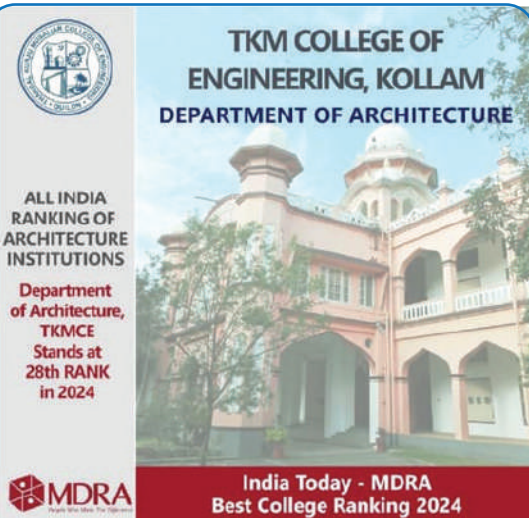
2020-24 batch in Chemical Engineering, has been awarded the APJKTU NSS Best Volunteer (Female) for her extraordinary contributions to volunteering during the period 2021-2023.



Project expo titled LUMERE24 was hosted by Department of ECE, TKMCE. Around 1500 students from nearby schools attended the exhibition and drone show.



Our beloved Chairman of TKM group of institutions Sri. Shahal Hassan Musaliar was honoured by the Honorable Minister for finance, Sri. K.N. Balagopal at a function organised by the NSS unit of Koikkal Government School, Kollam, for his invaluable contributions and support for the local government institution.



Department of Architecture, TKM College of Engineering, has secured the 28th position in All India Ranking of Architecture Institutions.



Our Chairman Sri. Shahal Hassan Musaliar receiving the Senior journalist's award from honourable Minister for Animal husbandry and dairy development, Smt. Chinju Rani today at Kadappakada Sports Club, Kollam.

Sri. Shahal Hassan Musaliar, president, TKM College Trust receiving Dr.N.A. Karim Memorial Award from Sri. Arif Mohammed Khan, Hon.Governor of Kerala, for his exemplary services in the field of higher education.



ALUMNI ACHIEVEMENTS



Dr. Shafi K.A has been designated to be the Vice Principal of TKM College of Engineering from 1st June 2024. He will also serve as the Head of Department of Mechanical Engineering.



Dr. Sajeed R. has been appointed as the Principal in Charge of TKM College of Engineering from 1st June 2024.



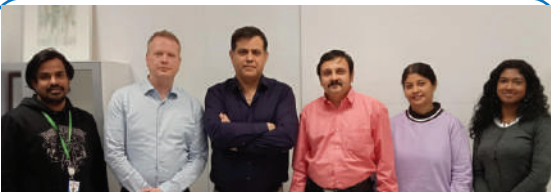
All India Council for Technical Education (AICTE) has selected TKM College of Engineering as a mentor Institute under Margdarshan Scheme. A grant of Rs. 9 lakh has been sanctioned in the project for guiding three nearby mentee institutions towards attaining NBA accreditation for their Undergraduate and Diploma programmes.



PhiScope Robotics Pvt Ltd and the Department of Electrical and Electronics Engineering (EEE) at TKMCE Kollam, have formed a partnership to enhance student skills through skill development sessions, internships, and placement activities.



Geoinformatics Research Laboratory is an interdisciplinary research Lab developed under the joint initiatives of the Dept. of Civil Engineering and Dept. of Architecture of TKMCE. The lab was inaugurated on 13th May 2024 by Janab Jalaluddin Musaliar, Honorable Treasurer, TKM College Trust



Dr. Adarsh S, Professor of Civil Engineering and his student group attended the prestigious EGU2024 at Vienna Austria during 14-19 April 2024

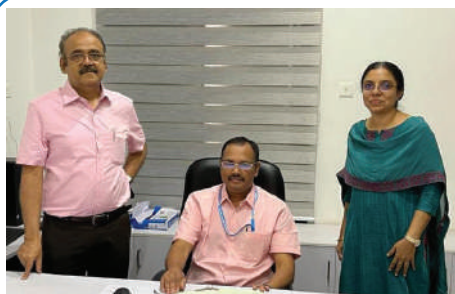


The Biomedical Engineering Research Lab in the Dept of ECE of

TKMCE, Kollam was inaugurated on Friday 19th April 2024 by Janab Shahal Hassan Musaliar, Honorable Chairman of TKM College Trust



Dr. Baiju V, Assistant professor in Dept of Mechanical Engineering, has been awarded the BEST YOUNG FACULTY AWARD for this year, on Founder's Day, 19th Feb 2024, by Jb. Jalaluddin Musaliar.



Dr. Nizar Hussain, Professor, Mechanical engineering, TKMCE, has been appointed as the Controller of Examinations with effect from 1.4.2024



TKMCE Final Year student Abhishek Nair awarded 'Prof. Sabu Thomas Sasthra Prathibha Puraskar' in Prof. Sabu Thomas Budding Research Competition.



Achieving another milestone with the launch of the third book, Sayonara, of Naja Hussain, Research Scholar, Department of Electrical Engineering, TKMCE at the prestigious Sharjah International Book Fair

ALUMNI ACHIEVEMENTS



One block under Mechanical engineering department at TKMCE, which houses cutting edge technology labs, Idea lab, CAD CAM centre, Entrepreneurship and Incubation centre, workshops etc., was named as Somanath Centre as a tribute for his achievements and was inaugurated by Sri. S Somanath himself on 13th January 2023...a great moment indeed for TKM alumni fraternity.



The SAE TKMCE, the Professional Society under the Department of Mechanical Engineering would like to inform you that the team "TKMCE Vegha Electric Scooter" made a significant achievement on their debut appearance in the SAE All India level "Dr.G.Padmanabham Memorial Electric Two Wheeler Design Competition 2024" competition held at "Rajalakshmi Engineering College" during 17-18th February, 2024. The team has secured *All India Rank 3* for Innovation and Modeling, *All India Rank-6* in overall ranking (Second Institute from Kerala to be ranked under 10) amidst fierce competition from 40 colleges across the country. The team demonstrated remarkable performance in the bump test, ensuring the vehicle's strength, as well as in the durability and

endurance tests, all on the first attempt. This achievement lays a solid foundation for future teams, emphasizing the invaluable experience gained and positioning TKMCE as contenders for future titles.



Prof. Reshna S, Associate Professor, Dept. of ECE, TKMCE and a team of researchers visited Kookmin University, Seoul, South Korea. She visited Prof. Dr Young Soo Chang, KMU Smart Refrigeration Control Laboratory and discussed the past developments in various research areas and the MoUs we have with Kookmin university. She also had discussions with Mr. Amal Vasu, Mr.JinuSudhakaran, Mr.JibiJais and Mr Gineesh T G, our alumni who are pursuing Doctoral Research in the University.



Er. ANTONY JOSEPH
Managing Director
BRAHMOS Aerospace TVPM Ltd
1984 M



Dr. KURUVILLA THOMAS IFS
Appellate Authority Member
RERA
1985 C



Dr. JAGATHI RAJ
Vice Chancellor
SN Open University
1986 E



Er. BEJOY BHASKER
Director
Technical Cochin Shipyard Ltd
1987 M



JOLLY CYRIAC
Managing Director
Holmarc Opto- Mechatronics Ltd.
1989 M



ISHACH S
Managing Partner
Holmarc Opto-Mechatronics Ltd.
1989 M



Er. ANIL KUMAR B.
Executive Director
Indian Oil Coporation Ltd
1987 C



Er. SAJEEV B
Chairman & Managing Director
HOCL
1988 Chemical



Er. SREEKALA S
Chairperson
Kerala Pollution Control Board
1991 C



Er. CHANDRABOSE J
Managing Director
Malabar Cements Ltd
1992 ECE



The first delegate of India to PIARC (World Road Association) has nominated Dr. CINI AMBIKA (1988 C) as Corresponding member of the PIARC Technical Committee for the 2024-27 work cycle

ALUMNI ACHIEVEMENTS



Congratulations to Dr. Shafi K A, Prof. Sigi Kumar T S, Jeyakrishna N, Mohammed Sabith Basari M, Neeraj S, and Saran Senan for securing a patent (Design No: 364340-001, dated 18-01-2024) from the Patent Office, Government of India, for their exceptional work on the **Industrial Design for the Fabric Dryer**.



Shri Mohammed Anwar Y our alumnus of 2003 Mechanical batch, Assistant Forest Conservator, has been awarded the first "Green Warrior Award" by the Kerala Forest Rangjers Association. This prestigious award recognizes his outstanding contributions to environmental services, innovative interventions in human-wildlife conflicts, and fostering a positive forest-public relationship. As a founding member of "SARPA" and State Nodal Officer, Anwar played a crucial role in significantly reducing snake bite-related deaths in Kerala. His efforts led to a remarkable decrease in the death rate, from over 300 to just one-fourth of that number.

CLUB MILLENNIUM TKM 60 PLUS AWARDS 2024



BEST OUTGOING STUDENT AWARD
Beema Jihan
Civil Engineering 2020-2024



MOST DESERVING 1st YEAR STUDENT AWARD
Havish Vardhan P K
Mechanical Engineering 2023-2027

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COLLEGE OF ENGINEERING

Karicode, TKMCP.O., Kollam - 691 005. Ph : 0474 - 2712024, 27131

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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.



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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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Ph : 0474 - 2711939, 2715650. Web : tkmcps.org

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Ph : 0474 - 2719952, 2715232, 2719216. Web : tkm_scit@yahoo.co.in

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