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THE BREAKTHROUGH BULLETIN

Issue I

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June 2025

Message

It is a matter of immense pride and satisfaction to witness the vibrant enthusiasm with which the IEI Student Chapter of our University continues to foster technical excellence and innovation through its activities.

The year witnessed a series of impactful IEI Student Chapter activities, guest lectures, technical workshops, and field visits that served as platforms for students to explore emerging trends, interact with industry experts, and elevate their practical knowledge. These initiatives have significantly contributed to shaping well-rounded engineering minds ready to contribute to society.

My heartfelt congratulations to all the student coordinators, faculty mentors, and organizing teams for their unwavering dedication. Your collective efforts have translated ideas into achievements and initiatives into experiences of value.

Let us continue to carry forward this legacy of excellence, innovation, and service to the engineering community.

Er. Thiru. A.C.S.. Arunkumar

FIRST YEAR (E&T) MGR IEI STUDENT CHAPTER



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Dear Readers,

It is with immense enthusiasm that we present this edition of our newsletter, which is a testament to the vibrant learning culture promoted within the First Year Engineering and Technology community. As we go in further along in the 2024–2025 academic year, our vision has been consistently aimed at the promotion of both academic success and well-rounded student development.

This edition captures the essence of innovation, creativity, and collaboration showcased by our students across a series of events and activities, ranging from skill development workshops to SDG awareness drives and art and cultural events. From designing a book cover, suggesting green solutions, studying the latest technology, or expressing themselves through art, our students have consistently produced outstanding work, seizing every opportunity to learn, improve themselves, and pave the way.

Behind every example is a common commitment by faculty, staff, and administration to foster an environment where every student is urged to go beyond the classroom. These activities are not merely extracurricular; they are central to creating educated, reflective, and forward-thinking graduates.

We acknowledge with appreciation the unstinting support and guidance of our deserving President, the distinguished Registrar, and the entire faculty. We are also grateful to the student writers, participants, and coordinators whose dynamism, creativity, and commitment energized each activity featured here.

We hope this newsletter will be a testament to our accomplishments as a group and an invitation to action for the future. We must keep striving, participating, succeeding collectively.

Warm regards, Editorial Team First Year – Engineering & Technology Dr. M.G.R. Educational and Research Institute

MEMBERSHIP MILESTONE ACHIEVED!

We are proud to announce that 703 First Year E&T students have successfully enrolled as members of the prestigious Institute of Engineers (India) – IEI, marking a significant step toward professional development and engineering excellence.

Additionally, 250 students have joined the SDG IGEN ENSAV Club, strengthening our commitment to sustainability, innovation, and the UN Sustainable Development Goals.

These memberships reflect the enthusiasm of our students to engage beyond the classroom and grow as responsible, future-ready professionals.

DEEKSHARAMBH 2024: A GATEWAY TO TRANSFORMATION

The Department of First Year – Engineering and Technology delivered the Deeksharambh 2024 Student Induction Programme), a twelve-day comprehensive student induction programme, demonstrating the institution's commitment to effective student support and onboarding. Deeksharambh was an important transition strategy for first-year students to assist them in their first steps as learners in the new academic life journey, a bridge from school to university life that helps students create familiarity, confidence, and connection, as part of their purpose, goals, and future learning and life goals.

The Deeksharambh programme followed the high-level framework of SAGE - Socializing, Associating, Governing, and Experiencing—that laid the groundwork for students to appreciate their institutional and social environment, where values, academics, and the expectations of educational and broader academic experiences encompass their academic journey. Students experienced a range of motivational presentations, expert sessions, activities to stimulate creative thinking and design, and both professional and cultural aspects of engineering life.

The six educational highlights were Youth Empowerment; Engineers as Nation Builders; from Campus to Corporate; New Course Development; Study Abroad; Entrepreneurial Mindset; and Ethical Hacking. The continuing educational highlights, that included physical fitness regimes, team-building activities, pro-mentoring activities, arts and cultural activities, satellites technology presentations, and career skills.

Deeksharambh was able to articulate not only aspects of academic life, but also embedded significant values of self-discipline, compassion and empathy, a spirit of continuous innovation and future-focused values and a sense of social responsibility in all aspects of the university experience as a whole. With thoughtful contribution and support from the contributors and the full engagement and participation of the students, the Deeksharambh 2024 program has initiated the beginning of a good, purpose driven, well-rounded university experience.







THE TEAM THAT MADE IT ALL HAPPEN





MY JOURNEY AS A COMMITTEE MEMBER

Being a part of the IEI Student Committee has been one of the most meaningful chapters of my college journey. When I first stepped into this role, I didn't fully realize the impact it would have on me, not just as a student, but as a person.



The Faces Behard The Lege Meet the driving force of the IEI Committee and their vision for empowering students.

Reflectíons from the íeí journey

Over the past year, I had the privilege of working on technical workshops, industrial guest and paper visits, lectures, presentations, each one a new challenge, and each one an opportunity to contribute something valuable to our campus. These weren't just events, they were platforms for students to explore, learn, and grow beyond the boundaries of our classrooms. The true beauty of this experience wasn't just in the events themselves, but in the teamwork and dedication it took to make them happen. From brainstorming ideas and managing logistics to designing posters and writing invitations, every small task added up to something greater. Even during late nights and tight deadlines, I felt motivated, because I wasn't alone. I was part of a team that cared deeply about making a difference.



Behind every successful program is a team that works selflessly, quietly, and wholeheartedly, and I'm grateful to be one of them."

Together, we became more than just a committee, we became a family. We supported one another, learned together, and celebrated every small win with big smiles.

> With Gratitude From ini team ARTICLE BY BIRDAUS.A



WORLD STANDARDS DAY 2024

On October 14, the First-Year Engineering and Technology Department, in association with The Institution of Engineers (India), commemorated World Standards Day 2024 by recognizing the global theme, "Shared Vision for a Better World: Standards for Our Changing Climate" which addressed how standards can help us effectively mitigate climate change for better sustainable development.

The highlight of the event was the creative competition called "Design an Engaging Book Cover" where students had the opportunity to express their creativity and knowledge of how standards support a sustainable future. They creatively connected design with their understanding of standards and how to apply them towards climate-resilient technologies.

The event was a great success in bringing awareness to students regarding the impact of standards in their everyday lives and the vital role they play to positively address global challenges. The department would like to express its sincere appreciation to the Honourable President for their encouragement and support of this event.



"Standards are the silent architects of sustainability—shaping a greener tomorrow, one guideline at a time."







Through activities like the "Design an Eye-Catching Book Cover" competition, students explored how design and creativity can raise awareness on climate action. Events like these show that even the smallest ideas, when shaped by standards, can inspire global change.

The theme "Shared Vision for a Better World: Standards for the Changing Climate" reminds us that global cooperation is key. Standards unify efforts across countries and industries, making climate action more coordinated, impactful, and scalable.

FUTURE READY PROFESSIONALS





The IEI MGR Chapter of First-Year Electronics and Telecommunication (E&T) successfully hosted an engaging and informative skill development workshop titled "Future Ready Professionals" on November 5, 2024. The session witnessed enthusiastic participation from students eager to expand their knowledge in one of the most transformative fields of modern technology the Internet of Things (IoT). The workshop focused on building a strong foundation in IoT, covering essential concepts such as sensors, actuators, connectivity protocols, and cloud integration.

A key highlight of the session was the expert talk by Mr. Nixon E, Proprietor of Nitronix Services and Founder of Techknots, who shared valuable insights into the latest trends, real-world applications, and career opportunities within the IoT domain. Students gained a clearer understanding of how IoT is revolutionizing industries such as healthcare, agriculture, smart infrastructure, and manufacturing.

Beyond technical learning, the event encouraged innovation, critical thinking, and provided a platform for networking with professionals, fostering stronger ties between industry and academia. The workshop was a significant step toward preparing students to meet the demands of an evolving job market with relevant skills and future-ready knowledge.



EMBRACING TOMORROW'S TECHNOLOGY TODAY

As the digital landscape rapidly evolves, staying ahead means more than just understanding concepts—it requires curiosity, adaptability, and a passion for innovation. Initiatives like skill development workshops spark that journey by bridging the gap between classroom learning and real-world applications. Whether it's IoT, AI, or smart systems, exposure to emerging technologies is shaping students into agile, future-ready professionals prepared to thrive in a tech-driven world.

"The future belongs to those who prepare for it today—with knowledge, curiosity, and the courage to innovate."

COSMOLOGY: EXPLORING THE UNIVERSE

Cosmology is one of the most exciting and mind expanding areas of all of science, cosmology, and for very good reason. At its core, this weird science is the study of it all, how the universe began, how it's changing now, and how it will eventually come to an end. The word itself is a compound of the Greek kosmos, meaning "world" or "universe," and logia, meaning "study." Cosmology, a craft that goes well beyond the hard, empirical, scientific world of stars and galaxies. It's humanity's fundamental quest, our primeval desire to understand where we came from, where it all began and where it all could be going.

The concept of cosmology is as old as humanity, tracing its roots thousands of years before the development of science as we know it today. The word first entered the English language in the I600s but as early as the I8th century, philosophers such as the German philosopher Christian Wolff were using the word to refer to a branch of philosophy concerned with the most basic nature of the physical world. In those days, you don't get to say "well nowadays..." because the people of which I'm writing didn't have access to telescopes that could see a billion light years away, nor satellites circling our world mapping our sky in infrared and X ray. As anyone who's ever attempted a multibillion dollar science endeavor will enlighten you, even today, with our advanced technology, the universe is still an infuriatingly elusive arena.

These days, cosmologists are the scientists who work to put that story of our universe back together—from those very first cosmological moments all the way to the stars and galaxies that fill the universe today. To do this, they utilize the most sophisticated tools on earth and in space the billion dollar deep field images from NASA's space telescopes, astronomers' largest computer simulations, most sensitive detectors, and other instruments to probe everything from the origins of ancient starlight to invisible forms of dark matter. It's a tough craft, wielding the technical sorcery fused with artistry that stems from a thorough understanding of the "how" based on a remarkable understanding of the way that physics and mathematical wonders coalesce with extraordinary curiosity and creativity.

One of the most important observations underlying cosmology is the Big Bang, the fact that the universe began as a hot, dense point roughly I3.8 billion years ago, which has been expanding ever since. As it turns out, that expansion isn't a thing of the past at all, and it's a massive aspect of what cosmologists are trying to figure out right now. Or how processes led to the formation of the first ever atoms in the universe. When exactly did the first stars and galaxies form. What about the ultimate fate, the deep future, of the universe? Will it continue to be infinite, or will it run its course and end?

Aside from cosmic background radiation, cosmologists study the large scale structure of the universe. The catch to this good news is that it turns out that isn't the case, that galaxies actually aren't thrown haphazardly around the dark, quiet emptiness of space, they're organized, structured, and gravitationally forged into a cosmically complex cerebral web, containing clusters, filaments, and enormous, spooky, desolate regions known as voids. Learning to interpret the complete history of gravity, radiation and dark energy on the geometry of our universe is what's at stake.

Next, comes the deep, intractable puzzle. Obviously, to be sure, the 95 percent of the universe composed of invisible stuff, dark energy and dark matter, mysteries. If dark matter appears to be binding galaxies, then dark energy is believed to be producing the opposite force, the one literally tearing the universe apart and increasing the distance over which it's doing so. We know these things exist, due to the effect they have on what we're able to observe, but are not able to identify precisely what these things are.





Subashini B.Tech CSE(DS&AI) 1st Year (E&T) AA1



BEATING WITH IDEAS AND ENERGY

GOKUL D SETS INNOVISTA'25 IN MOTIONI

Inaugurated by ISRO's Gokul D, Innovista'25 soared with science, spirit, and celebration



Welcome to the *Heartbeat* Innovista'2025

Innovista'25 was an incredibly exciting mix of energy, creativity, and bold ideas. In this, we were part of an amazing community that experienced the energy of the incredible talent, passion, and friendly competition that everyone brought to Innovista. All of the participants really exemplified new ways to innovate and unleash their imaginations. Whether it was or challenges rapid-fire tech presentations, athlete showcases or thrilling duels, everyone was engaged, entertained, and filled with excitement. In true Innovista spirit, seven fun events brought together challenges testing skills, building creativity, and inspiring solutions.



Whether we were hacking out some ethical problem, decoding film clues, or painting narratives on canvas, we were all engaged, interested and enthused.

The highlights of each of the events are all below, and we encourage you to relive the excitement of Innovista'25 with us!









INNOVISTA'25

ETHICAL HACKING SERIES

The Ethical Hacking Series was an exciting way to introduce Innovista'25 and embraced the innovation and practical problem solving we were looking for. Hosted by the tech-savvy Spread Club and collaborated with the IEI Students Chapter, it was more than just an event; it was an experience where participants were presented with tasks to think like cyber criminal experts assessing their own environments, recognizing vulnerabilities, breaking difficult codes, and finally offering secure, ethical solutions.

The participants were able to take part in simulated hacking scenarios that not only tested their technical abilities, but also their analysis skills and ability to stay calm in the moment and think through a problem. As each round progressed, the difficulty and of the challenges intensity increased, giving those involved a real life glimpse into the crazy world of ethical hacking on another level. The interface behind all the activity was more than just breaking in it was sitting in the chair cyber-breaking and meandering along with securing our futures — one line of code at a time.

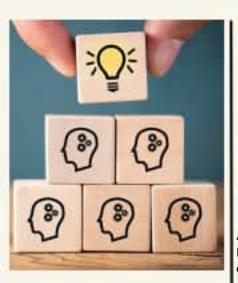




"Where sharp minds met bigh-stakes digital puzzles, the Ethical Hacking Series turned Innovista'25 into a battleground of brilliance, as students raced to outsmart cyber threats and prove that the future of cybersecurity is safe in their bands."







Learning Beyond the Syllabus

INNER STUDENT

In the rush to meet deadlines and outperform, we often forget that learning can be joyful. Remember the feeling of discovering something new just for the fun of it? Whether it's picking up a random fact, doodling without rules, or exploring a documentary outside your syllabus — those little acts rekindle the inner learner who once asked "why?" without fear of sounding silly.

"THE MOMENT YOU THINK YOU KNOW IT ALL IS THE MOMENT YOU STOP GROWING."



The Student Within: Staying Curious in a Known World

EGO STOPS WHERE CURIOSITY BEGINS,

Because learning never

retires.

As we grow older, there's a quiet shift that happens within us. Somewhere between completing assignments, cracking exams, and gaining certificates, we start believing we "know enough." But life, in its own gentle yet firm way, reminds us that learning never really ends. No matter how much we know, there's always more — more to explore, more to unlearn, and more to grow.

We often associate learning with classrooms, textbooks, or official training sessions. But some of the most meaningful lessons come unannounced — through simple conversations, unexpected setbacks, or the quiet observations of people around us. A junior teaching us how to use a new app. A friend's calm approach in a crisis. A parent's silent strength. Each moment, if we pay attention, becomes a classroom.

> True growth begins with curiosity — the willingness to ask questions, to wonder why things are the way they are, and to accept that we don't have all the answers. Staying curious means being open, not just to new knowledge, but also to new perspectives. It means listening more and judging less. It means understanding that even the person we least expect might carry a life lesson we never thought we needed.





One of the biggest roadblocks to learning is the ego — the voice that says, "I already know this," or worse, "I'm better than this." But the moment we silence that voice, we open ourselves to growth. Because the truth is: the world changes constantly, and so must we. Being a student is not a phase — it's a mindset. And the most successful, humble, and wise people you'll ever meet are those who remain students at heart, no matter their age or achievements.

So let's carry that student within us — not just in our college years, but for life. Let's keep asking, keep observing, and keep learning. For in this vast, ever-evolving world, the curious will never stop growing.

Thank You

-YOGALAKSHMI.P.S B.Tech BME 1st Year(E&T) AH2







YOUR OPPORTUNITY TO SHINE!

Admiring the impressive talent and excitement of the 3-Minute Thesis event? Now it's time to develop your communication skills! If you're a student, researcher, or innovator, presenting your ideas in a clear and engaging way can take you anywhere. Look out for more workshops, training sessions and events on public speaking, research presentation and effective communication, and everything else to help you pitch your ideas with confidence when you next take the stage, and further develop and project your ideas with impact

3 MINUTE THESIS

The 3-Minute Thesis event at Innovista'25 was a thrilling test of clarity, creativity, and confidence. Participants attempted to deliver their whole research or innovation in just three minutes - no slides, no props, just their voices and passion to engage the audience. The pressure of time forced students to distill their concepts, communicate their ideas, and capture the attention when given only three minutes of time. From new scientific frontiers to social innovations, each participants created powerful, succinct stories that made even the most complex topics easilv conceivable. The countdown only added to the pressure and and excitement encouraged participants to dazzle us all with clarity and conviction! This event highlighted different forms of intelligence but also the extremely important skills of storytelling and illustrating impact, which reinforce that innovation starts with how you present ideas.



WINNERS AND CHEERS!

While only a few teams took home the win, everyone walked away with smiles, shared laughs, and renewed love for the silver screen. The winning team earned loud applause and perhaps a few requests for movie recommendations.

DECODE THE SCENE, BEAT THE CLOCK

Each team had mere seconds to scan the screen, pick out the details, and ring out the correct movie title. The visual cues were playful, sometimes cryptic, and often hilarious. Was that the shadow of a wand? The tilt of a famous tower? Or just misdirection? Every image was a cinematic mystery waiting to be solved.



"I never thought guessing movie scenes could be this intense! We were screaming titles, laughing at wrong answers, and cheering each other on it felt like a game night with IOO people. Definitely one of the most fun events I've ever joined!"

> ~Kudssia Zehra, B.Tech BME Ist Year E&T

CINEMA MEETS COMPETITION

What distinguished the Green Screen Challenge was its seamless combination of fun and intellect. It created a gathering of film enthusiasts and intellectuals competing with a sense of fun. It brought fans and gamers to mediocrity and prompted everyone to be a film detective carefully absorbing images for clues, readingly clues, deciphering hidden details, recalling previous images, and making connections. It wasn't simply a question of "knowing the movie" it was about seeing between the pixels.

For many it wasn't even about winning it was the rush of remembering, of recognizing the film from a background color, a silhouette, and blurting out its name resolutely a nanosecond before someone else. It was competitive, chaotic, and gloriously cinematic.

GREEN SCREEN CHALLENGE





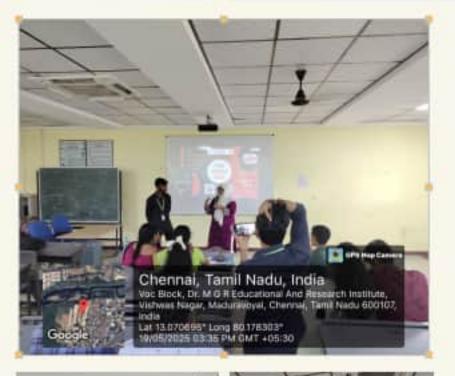


"Movies are a mirror of our imagination — and today, we saw reflections that made us think, laugh, and guess!"

THE GREAT DUEL









"Courage is speaking when the spotlight is yours and the silence is deafening."

In one of the most suspenseful and high-stakes competitions of Innovista'25, The Great Duel ignited the spark of battle of wits to the forefront. This was not merely about knowledge — it was about speed, strategy, and power of expression. In this intense IvI mode, participants clashed in the face of a energetic crowd, engaging in quick witted battles of the mind that challenged not only what they knew, but also how smart and quick on their feet they were.

Every duel played out as a minidrama from rapid-fire retorts to flash answers, and instances of silence punctuated by devastating comebacks. With topics ranging from general knowledge, puzzles, logical reasoning, and impulse topics, no two confrontations were the same.

The atmosphere in the room was charged as students came to see their classmates compete in the greatest intellectual challenge. Cheers of encouragement, oohs at quick retorts, and deafening roars for upsets made this competition an absolute fan favorite.

It wasn't merely a competition, it was a show of quick minds and loud voices.

Above all, The Great Duel honored bravery. To hold one's ground, think quickly, and answer clearly in adversity is no mean accomplishment and each contestant, whether he won or lost, emerged with the admiration of the crowd and the pride of having dueled honorably.

WHERE MINDS CLASHED AND SPARKS FLEW

The Great Duel was more than a competition, it was a forum of wits! Students met, face to face, thinking fast and talking faster. The audience sat on the edge of their seats, each second teetering on uncertainty. Each duel was a a battle of logic, confidence and a wide rage of responses that were sharp, quick, and thought, provoking. It was exciting, raw and buzzed with improvisation. The Great Duel proved that the greatest battles are fought with words, not weapons!

It wasn't just about presenting an idea it was about innovation under pressure, collaborative

creativity, and most importantly, relevance. Students

stepped up not just with ideas, but with implementable,

scalable, and socially conscious solutions that wowed both judges and peers.

THINK. BUILD.

Practical innovation was at the heart of the Founders Forum. Armed with realworld problems, students were given the power of the entrepreneurial role untangling chaos, inventing good and clever solutions and presenting proposals that were audacious, relevant and impactful. Teams were working under duress, creating an equal balance between concept and logic, but proposing ideas that were not creative, only but implementable.

What made this event unique was the focus on purposeful thought. It was less about the right answers and more about the alternatives each group brought to the saw process. We possibilities, real chances of achieving the goodwill and audacity to attempt to solve complex issues. The forum highlighted to us that the next generation of changemakers are prepared not just dreaming but building!

THE FOUNDERS FORUM



It wasn't just about presenting an idea — it was about innovation under pressure, collaborative creativity, and most importantly, relevance. Students stepped up not just with ideas, but with implementable, scalable, and socially conscious solutions that wowed both judges and peers.



The Founders Forum at Innovista'25 wasn't just an event it was a live innovation lab. This dynamic, thoughtprovoking challenge placed students at the heart of real-world problems faced by startups, industries, and society. With limited time and no predefined rules, participants had to think like entrepreneurs, problemsolvers, and visionaries all at once.

Real Problems. Student Solutions. Real Impact.

The Founders Forum at Innovista'25 wasn't just an event it was a live innovation lab. This dynamic, thoughtprovoking challenge placed students at the heart of real-world problems faced by startups, industries, and society. With limited time and no predefined rules, participants had to think like entrepreneurs, problemsolvers, and visionaries — all at once

SDG PITCH PRESENTATION: INSPIRING IDEAS FOR A SUSTAINABLE FUTURE



The Department of First Year - Engineering and Technology, in collaboration with the MGR IGEN SDG ENSAV Club, organized the SDG Goals Presentation Competition with the aim of raising awareness, innovation, and creative thinking in students around the topic of Sustainable Development Goals (SDGs). The first round of the event began on October 28, 2024, with more than 40 students offering great ideas to tackle global environmental challenges.

After rigorous screening, finalists were chosen based on their quality of content, creativity, and impression of their overall presentation. The final round of the event took place on November 20, 2024, with 32 finalists (I7 participated from Slot A and I5 participated from Slot B) and the students showcased a series of considered suggestions and future projects to be aligned with sustainable development goals.



The event was supported by esteemed guests and judges, who provided praise and additional information to participants. The competition was an effective way to develop innovation and provided an opportunity for the students to be engaged in the SDGs. Thank you to the Honourable President for the continued support for creating a sustainability-focused academic context.

Sustainable development begins with awareness and grows with action. By encouraging young minds to explore the SDGs, institutions play a vital role in shaping responsible global citizens. Every idea shared and every problem addressed through initiatives like the SDG Pitch Presentation contributes to a collective vision: a greener, fairer, and more sustainable future for all.



WORLD TELECOMMUNICATION AND INFORMATION SOCEITY DAY

The Department of First Year, Engineering and Technology, in collaboration with the Indian Institute of Engineers (IEI) and STEM, celebrated World Telecommunication and Information Society Day on May I6. Marking the significance of digital inclusion in today's society, the event focused on the theme "Gender Equality in Digital Transformation." A vibrant Poster Making Competition was organized, drawing active participation from students across departments.

The initiative aimed to raise awareness of the digital gender divide and promote equal access to technology and opportunities for women and girls. Participants creatively showcased their thoughts on bridging digital gaps, empowering women in STEM, enhancing digital literacy, and ensuring safe and inclusive online spaces. The posters beautifully reflected core ideas such as equal access, representation, and empowerment through technology.

The event inspired meaningful dialogue on the importance of inclusive digital transformation and concluded with positive feedback from students and faculty alike. Heartfelt thanks were extended to the administration for their continuous support and for fostering a rich environment of scientific engagement and academic opportunity.







As we explore the digital age, achieving equal participation of all genders in technology will not just be a target; it is essential. As we encourage inclusive access to digital tools and education, institutions can play a huge role for this target and for a diverse and equitable tech-driven society. This event is a great reminder that gender equality in digital environments drives innovation, leads to better decision making and ultimately leads to advancement globally. As we are aware and act for equality, we continue to near a world where technology benefits all, equally.



"Digital inclusion is not just a technological issue it's a human right. Empowering women in tech means empowering the future."



"NOT EVERY SPOTLIGHT IS ON STAGE-SOME SHINE BEHIND THE SCENES"

INNOVISTA'25 CHRONICLES

Bebind every successful event lies a team that stayed up late, double-checked every detail, and put their hearts into execution. As a committee member of INNOVISTA'25, here's a look into the roles we undertook, the challenges we overcame, and the memories we created.







Being a Committee for INNOVISTA'25 vas an experience filled with learning, energy, and Member leadership.

It began with class-to-class campaigning, where we introduced the fest, explained events, and encouraged participation. Divided into teams, we covered every department, building momentum and energy across campus. Once registrations began, student management became key. From guiding participants to resolving last-minute issues, our roles required flexibility and quick thinking. Coordinating with volunteers, judges, and faculty taught us teamwork in action.

Each event technical, fun, or memory-based had its own vibe. We planned the structure, prepared materials, and ensured smooth execution. Scoring sheets and event rules were created in advance for fairness and clarity. Accurate tabulation and timely results helped build trust in the process.

> "Meanwhile, our Instagram page turned into a digital diary. We shared reels, photos, and updates that kept the online community engaged. Every caption was crafted to match the vibe—fun, emotional, or celebratory.

Thank You

A CORE TEAM PERSPECTIVE

After the event, we documented everything: event themes, participants, winners, judge feedback, and takeaways. These summaries now serve as a reference for the future. Being part of this core team meant more than ticking tasks—it meant leading, learning, and growing. INNOVISTA'25 gave us lessons, laughter, and the confidence to create something truly impactful.

Looking back, the experience of being on the committee wasn't just about managing tasks—it was about owning responsibilities, learning leadership, and working as a team under pressure. We made mistakes, solved problems, laughed through chaos, and celebrated success. INNOVISTA'25 gave us memories that will stay long after the certificates fade—and more importantly, it gave us confidence in our ability to lead and grow





-SRI HARINE.G B.Tech BME 1st Year(E&T) AH2

PIXEL PAL



Say goodbye to the status quo Pixel Pal ushered in the digital dreamers, the code weavers, the design mavericks of Innovista'25! In a remarkable blend of creativity and technology - a 'tech-meets-art' moment - Pixel Pal was a mash-up of gaming, design, creativity, and engineering.

With visual challenges that mesmerized participants, UI/UX puzzles that engaged thought, and real-time creative coding activities, students were immersed in a world in which aesthetics and logic exchanged elements, and innovation was limited by only their imagination. Whether visualizing interfaces, solving visual puzzles, or sprinting to conceive digital game designs, students had the opportunity to push their understanding of intersection between technology and all things design.







The Pixel Pal experience served as the ultimate playground for students fluent in pixels and circuitry. It enabled them to think differently, create boldly and express their creativity with technological and design innovation as the palette.

Pixel Pal was more than an event, it was a playground of endless possibilities at the intersection of creativity and advanced technology. With every challenge, participants released their innovation as they completed challenges designed to extend the limits of design and code. The X factor? Originality. Every submission was original. From amazing visual art, to articulate programming, when the students articulated their bold ideas and then engineered them into functional, futuristic concepts, this experience moved the needle for digital art. As an unlimited vision fueled their imaginations, Pixel Pal showed that when in the right hands that even one pixel can tell an incredible tale!



ART SHOWCASE'25

In a vibrant blaze of colors and creativity, Art Showcase'25 turned the venue into a living gallery — an experience of students' expression and emotion. Every brush stroke every sketch, every splash of paint was a story, a voice, a vision. This was more than just an exhibition it was a festival of pure expression and talent of unbridled creativity.

Artists from all disciplines came together to showcase how they interpret the world, and society, our dreams, and our digital futures. Somewhere in the spectrum of abstract emotionalism to contemporary concerns each of these canvas pieces conveyed passion and meaning. There was an energy that was intimate, electric, but also necessary. Attendees did not just look at the art, but rather they felt in their hearts a connection to the piece.

Whether it was digital art, acrylic landscapes, or other experimental styles or forms, Art Showcase'25 demonstrated that art is not only but you something you see, experience! People marshaled in to east. Visitors tokened their time engaged, contemplated, spent reflected and often left wanting more. To our visitors, I hope you feel intrigued, delighted, and inspired.







A THANK YOU TO ALL ARTISTS

To every student who participated, thank you for sharing your colors, your stories, and your passion. You didn't just paint or sketch, you inspired. May your creativity continue to challenge, heal, and shape the world.







WORLD HABITAT DAY 2024 - THROUGH THE LENS OF YOUTH

To celebrate World Habitat Day 2024, the First Year Engineering and Technology department held the exciting Photography Competition on October 7, 2024, with the global theme of "Engaging Youth to Create a Better Urban Future." Students were motivated to engage and appreciate the habitat of local native flora and fauna and to foster meaningful awareness and sensitivity of the environment in which they live.

Participants were to photograph the habitat of either a plant, insect, reptile, or bird residing on campus taking the images from five different angles. The competition was held in two slots; Slot A (12:00 - 12:45 PM) and Slot B (2:00 - 2:45 PM). There were 2I Student participants in Slot A and 32 Students in Slot B! Dr. N.S. Shubhashree enlightened all the participants by explaining the competition guidelines prior to the event and added the component of recognizing the understanding of native ecosystems.

In summary, the overall experience created a mindful, creative, and engaging way to investigate nature while increasing youth participation in effective sustainable urban living. Huge thanks to the Honourable President for his continued encouragement and support in developing the talents of students and raising awareness of their environment.







WORLD BOOK DAY 2025 - CREATIVITY BEYOND THE COVER

To celebrate World Book Day 2025, the First Year Engineering and Technology Department hosted the "Cover to Cover Redesign Challenge" on April 23, 2025, at VOC 4II. This creative challenge tapped into the students' creativity by providing an opportunity to create and redesign the covers of their favorite books. The creative challenge encouraged students to conceptualize and redesign the top layer (covers) of literature that to them represented aspects of artistic interpretation and world literacy, keeping in spirit with the theme of the event "Read Your Way - 2025". The challenge aimed to promote a culture of reading in an increasingly digital world.

With the challenge conceived, students entered the spirit and submitted visually engaging book covers and well thought out written explanations. The book cover designs were varied ranging from symbolic and minimalistic interpretations to colourful expressions reflecting the stories narratives of love, struggle and resilience while the competition environment buzzed with creative energy and the power of imagination turned literature into a living canvas.

Dr. N.S. Shubhashree's, Joint Registrar, First Year E&T, attendance at the event acted as an additional point of inspiration. Dr. Shubhasgree shared praise for the students' submissions and stated reading is an intellectual door way to the imaginations of an individual that can lead to personal progression and ultimately deeper learning.

Winners were crown for originality, the design, and all participants were issued "appreciation certificates". The event merged literature appreciation with artisitc and visual creativity, and World Book Day 2025 was a success and a memorable event.







INDUSTRIAL VISIT TO BASIN BRIDGE DEPOT



On 30th April 2025, students from First Year E&T, as part of the IEI Students Chapter, visited the Chennai Central Basin Bridge Coaching Depot. They observed key railway operations, including coach overhauling, brake checks, and bogie maintenance, gaining practical insights into real-time railway engineering.

A key highlight was witnessing the Vande Bharat Express up close, with officials explaining its advanced features and maintenance protocols. The visit bridged classroom learning with real-world applications and inspired students to explore careers in infrastructure and transport engineering.

Special thanks to Dr. N.S. Shubhashree, Mr. Amuthanantham K, and Ms. S.P. Malini for their support.

WORLD ENVIRONMENT DAY 2025 - "MY SOLUTION TO PLASTIC"





The Department of First Year Engineering and Technology commemorated World Environment Day 2025 with a colorful celebration at Dr. MGR Educational and Research Institute, Maduravoyal, Chennai titled "My Solution to Plastic," which sought student engagement with understanding the ever-increasing threat of plastic pollution and encouraged students to think creatively and adopt eco-friendly behaviour.

As part of the commemoration, an Essay Writing Competiton attracted a high level of participation from students from different branches of engineering, so student were inspired to express themselves in essays that demonstrated their innovative thought-processes on sustainable methods, such as developing biodegradable alternatives, community clean-up campaigns, recycling encouragement, and teaching others through education.

The celebration came to a close with students signing a pledge of commitment moving forward to reduce their plastic usage and to live a greener lifestyle. Overall the event demonstrated the significant importance student can make with regard to an individual's and society's environmental sustainability. The awardees offered essays which showed strong creativity and practical approaches to dealing with plastic pollution problems.

This significant initiative demonstrated the students commitment toward the environment's sustainability. My deepest appreciation must go to the Honourable President for his contributions, over-and-above his normal role, with regard to promoting sustainability and inspiring students through these activities.

"IGNITE THE FUTURE" - SDG AWARENESS AT SBM PRIMARY SCHOOL

On June 20, 2025, students of Dr. M.G.R. Educational and Research Institute, under faculty guidance, organized an SDG awareness program titled "Ignite the Future" at SBM Primary School, from IO:00 AM to 2:00 PM.

The session introduced young students to the United Nations Sustainable Development Goals (SDGs) through engaging activities and relatable examples. A special mime performance titled "One Planet, One Chance", based on Climate Action, delivered a strong message on environmental responsibility in a creative and memorable way.

The enthusiastic participation and meaningful responses from the school students reflected the program's success in planting seeds of awareness and responsibility at an early age.



SDG PULSE SYMPOSIUM 2025: ONE WORLD, ONE HEART, ONE FUTURE

With the full support of the First Year Engineering and Technology Department and with the coordinated support of the Dr. MGR–SDG Centre for International Coordination, this long awaited establishment of a "SDG Pulse Symposium 2025" finally passed on May 2Ist and 22nd at the RA Block University Auditorium of Dr. M.G.R. Educational and Research Institute. Armed with the motivating theme "One World, One Heart, One Future," the symposium was a perfect starting point for youth, professionals, and entrepreneurs everywhere to come together, allowing us to join together under our unified goal of elevating our United Nations Sustainable Development Goals (SDGs).

This entire symposium was launched by an incredible mobilization, in the shape of a magnificent and colorful NYC-style flash mob and banner drop, that completely bedazzled and bedazzled the entire campus, slicing through the middle of a community-stopping-wide cultural corridor and setting the stage for the two days of deep and passionate conversation that would ensue. The first of these sessions was headlined by Thiru. Alagappan Ramanathan, Development Goal Specialist, UNDP, putting national missions and the academic community's role in scaling up SDG implementation into national policy and practice, front and center. It put a special emphasis on SDGs 7 (clean and affordable energy), I3 (climate action) and I7 (partnerships).

Six dynamic and vibrant activities—SDG Quiz, Poetry Slam, Challenge Bowl, Face Splash, Campaign Crafting, and Paper Collages—captivated the diverse student body on campus during a two-day experiential-learning immersion. While the format varied, each event creatively captured the SDG spirit of collaboration and inspiration, fostering imaginative ideas, artistic creativity, and collaborative innovation on topics ranging from education to energy, climate change and equality.

With special guest and distinguished alumnus Thiru Sharren Balaji, as well as university president Dr. Input of very short half capacity of long name Panelists stressed the UN's sustainable development engineers and positive nature towards climate change engineers and expressed their hope and excitement watching students so actively involved in global citizenship initiatives.

The symposium ended with renewed commitments to go back and disrupt narratives, to work in partnership, demonstrating that when young people are connected by a shared purpose and vision, we have the collective power to build the equitable, inclusive, and sustainable world we seek and deserve.







"A SILENT WARRIOR CARRYING DREAMS OUDER THAN WORDS."

BEHIND HIS SMILE

The Smile Behind His Silence" is a deeply emotional and inspiring story of a boy named Arjun, whose quiet strength speaks louder than words. Set in a small town, it captures the journey of a middle-class dreamer whose life is shaped by hardship, love, and resilience. Behind Arjun's ever-present smile lies a heart that has weathered storms—silent battles fought for the ones he loves, especially his mother, whose unwavering courage fuels his every step. This narrative is not just about struggle; it's about silent strength, unspoken love, and the quiet pursuit of purpose. It's a tribute to those who dream big with nothing but hope in their pockets and fire in their bearts

Love Lights Darkness



THE SMILE BEHIND HIS SILENCE

Strength ín Shadows

In a small town, lived a boy named Arjun—a middle-class dreamer with eyes full of fire but a heart weighed down by silence. From the outside, he was the one who always smiled, the one who helped others laugh. But inside, he was a storm of emotions, stitched together by pain, maturity, and love.

He grew up watching his mother, the queen of his world, fight every battle life threw at her—alone, with quiet courage. She cooked on an empty stomach, laughed when life was cruel, and whispered dreams into Arjun's ears when the world said he had none. It was her strength that shaped him; it was her voice that lit the spark within him. "Make life count, my son. Not for me, but for the lives we couldn't live," she once said—and that became his mantra.

> Today, Arjun walks quietly toward his dreams—not for fame, not for fortune, but for the people who made him believe even a broken heart can become a masterpiece.

> He doesn't want the world to remember bis name. He just wants to be the reason his mother smiles with pride.



Despite all the burdens he carried poverty, expectations, and a painful past— Arjun never let anyone see his tears. He thought sadness was contagious, and he couldn't risk being the reason someone lost their smile.

He had a love—not just a girl, but a soul who stood beside him like light stands beside a candle. She saw him even when he tried to hide, held him when his hands were trembling, and reminded him that he deserved joy too. Not once did she let him fall without reminding him of how far he had already climbed.

His best friend, a brother by bond, was his unseen strength—always cracking jokes when Arjun's world seemed heavy and reminding him that even warriors deserve to cry sometimes.

Arjun was an introvert, yes—but his dreams screamed louder than words ever could. His goals weren't just degrees or jobs; they were memories waiting to be rewritten. He wanted to build a world where his mother could sleep in peace, where his father's silent sacrifices were honored, and where no smile had to hide behind pain.



-Arcot Nandha Kumar Ist Yeat(E&T) CSE(DS&AI) ACI

NATIONAL ENERGY CONSERVATION DAY 2024 – "POWERING SUSTAINABILITY, EVERY WATT COUNTS

The Department of First Year Engineering and Technology acknowledged National Energy Conservation Day on December 16th, 2024, as a part of a coordinating cross-country activity that has existed since 1991 to efficiency, promote energy encourage awareness of appropriate energy usage, and climate objectives achieve by encouraging sustainability.

In observance of the day, students engaged in two creative competitions- Essay Writing and Poster Making, as they participated in the competitions under the description of "Powering Sustainability, Every Watt Counts." The competitions were organized in two slots from II:00 AM- to II:45, Slot A, and 3:00 PM- 3:45, Slot B. In total, there were over 70 active participants, which provided a fun environment for students to think creatively and express their ideas and artwork regarding energy conservation.

The aim of this initiative was to create the awareness of minimizing energy consumption, using renewable energy sources, and using energy with consideration in everyday work, studies or home life. From each of their essays and posters, the students demonstrated the need of using energy habits that are efficient, which aligns with our grander mission of helping executors towards building an energy secure and green lifestyle.

The Department of First Year Engineering and Technology would like sincerely thank the to Honourable President, Er. A.C.S. Arunkumar, for his on-going encouragement and support for hosting collaborative and interactive activities that help foster awareness, creativity, and sustainable thinking in the minds of young people.



FEVICRYL ART AND CRAFT EVENT 2025 – A CELEBRATION OF CREATIVITY

The Faculty of First Year Engineering and Technology at Dr. M.G.R Educational and Research Institute successfully conducted the Fevicryl Art and Craft Event 2025, which was an immersive workshop for five days from May I2 to May 16, 2025 for 30 first-year students from around the region, each day from 9:30 AM to 3:00 PM. It was exciting event allowing students to express their creativity in art and craft with hands-on activities. The workshop introduced ten different art and craft techniques including Lino cut, Pichwai art, Warli art, clay fridge magnets, macaron keychains, donut photo frames, bottle painting, Kerala mural pouch painting, 3D liners bottle art, and Madhubani tray designs. The activities consisted of expert demonstrations, students working on their own, and student practice and showcases. Each day included a whole spectrum of creative education while giving students an opportunity to discover and develop their creative talents and appreciation On the last day of the workshop, a Certificate Distribution Ceremony took place, acknowledging the students' commitment and the fruit of their creativity. The presence of the Joint Registrar and coordinators added to the impact of the event and reinforced the institution's efforts towards holistic education. Overall, this could be seen as a unique effort to incorporate technical education with creative education, leaving students with enhanced skills, confidence, and collaborative nature.

CRAFTING CREATIVITY, BUILDING CONFIDENCE

Incorporating art into engineering education engages students in hands-on, creative thinking, which are just as important as knowledge of the field. Workshops such as the Fevicryl Art and Craft Event provide an excellent way for students to explore selfexpression, develop a stronger concentration and join together as a group outside of the classroom. Adopting creative outlets can relieve academic stress while developing creativity, flexibility, and an appreciation of aesthetics characteristics of a well-rounded individual.



YASMIN BEGUM D WINS BEST PAPER AWARD AT ALL INDIA SEMINAR ON DIGITAL HEALTH

The Indian Institute of Engineers (IEI) jointly with Thiagarajar Polytechnic College, Salem organized an All India Seminar on Digital Transformation in Healthcare on 29th & 30th November. Significantly, the student community was represented, by Ms. Yasmin Begum D, a student of Section AI2 -II, B. Tech., Computer Science and Engineering (AI &ML)! She presented a research paper "Robotics in Surgeries and Rehabilitation" at this national seminar.

This paper highlights the possible application of robotics in surgeries and rehabilitation indicating the increased precision, approachably more minimally invasive procedures and possible AI/ML assistance (in providing recovery support) for increasing patient outcomes. The paper discussed on the emerging technologies in utilizing patient outcomes and procedural pathways as well as insights into making procedures safer.

In a mix of presentations from other institutions across the country, Yasmin's work was recognized as very original, clear and impactful. In recognition of her work Yasmin was presented with a Best Paper Award. Yasmin's work as evidenced by this award will make a significant contribution to health care technology and digital transformations.

This achievement recognizes her commitment and academic success and it confirms the Department's commitment to supporting the development of young people into emerging, high-tech, classified fields such as AI, robotics and digital health solutions. Thank you to the faculty mentors and administrative support who enabled Yasmin's.

Yasmin's success is not just a personal victory, it's an invitation for every student to challenge themselves and bring their unique ideas to fruition. The world is your stage, whether your passion lies within technology, health care, design, entrepreneurship, or any other area that you are curious about.

Innovista, national seminars, student chapters, and project showcases are more than events, they are platforms to launch you. There will never be a perfect time for you to come up with the perfect idea. You need to start somewhere, come from your place of curiosity, find a community of learners, and make your voice heard. You never know; the next piece of paper, pitch, or prototype that is newsworthy might be you.

This is your time to create. To compete. To contribute. To Inspire.

The future needs thinking. The future needs doing. The future needs you.





Yasmin Begum D B.Tech CSE(AI&ML) 1st Year (E&T) AI2

WORLD TELECOMMUNICATION AND INFORMATION SOCEITY DAY

The Department of First Year, Engineering and Technology, in collaboration with the Indian Institute of Engineers (IEI) and STEM, celebrated World Telecommunication and Information Society Day on May I6. Marking the significance of digital inclusion in today's society, the event focused on the theme "Gender Equality in Digital Transformation." A vibrant Poster Making Competition was organized, drawing active participation from students across departments.

The initiative aimed to raise awareness of the digital gender divide and promote equal access to technology and opportunities for women and girls. Participants creatively showcased their thoughts on bridging digital gaps, empowering women in STEM, enhancing digital literacy, and ensuring safe and inclusive online spaces. The posters beautifully reflected core ideas such as equal access, representation, and empowerment through technology.

The event inspired meaningful dialogue on the importance of inclusive digital transformation and concluded with positive feedback from students and faculty alike. Heartfelt thanks were extended to the administration for their continuous support and for fostering a rich environment of scientific engagement and academic opportunity.







As we explore the digital age, achieving equal participation of all genders in technology will not just be a target; it is essential. As we encourage inclusive access to digital tools and education, institutions can play a huge role for this target and for a diverse and equitable tech-driven society. This event is a great reminder that gender equality in digital environments drives innovation, leads to better decision making and ultimately leads to advancement globally. As we are aware and act for equality, we continue to near a world where technology benefits all, equally.



"Digital inclusion is not just a technological issue it's a human right. Empowering women in tech means empowering the future."

INNOVATION VAULT 2025

The Academic Forum of First Year Engineering and Technology, along with the MGR IEI Chapter, proudly launched "Innovation Vault" on I6 December, 2025, as a platform to support aspiring innovators with Seed Money for engineering-based solutions to real world industry problems. This program encouraged students to think beyond the confines of academia and immerse themselves in the context of young researchers and builders of solutions.

14 student teams were selected and provided Rs. 5,000/- each to create a working prototype of their innovative idea. This timely funding extended opportunity to contextual thinking and engaged a new level of research culture among first-year students and revitalized the interest of faculty mentors.

This initiative was a proud moment for the department to continue developing problem solving thinking and ideation in the innovation journey. The department sincerely expresses its gratitude to the Honourable President for his continued support for academic initiatives, and to Dr. L. Ramesh and Dr. Antony for organizing this great opportunity for First Year E&T.



As a large part of the support to innovative students, selected teams under the Innovation Vault initiative will receive assistance in transitioning to patent filing to continue protecting and developing their ideas toward realization. This action enables original thought but also familiarizes students with some of the basics in intellectual property. With funding and support for patents, the initiative will change early stage concepts into technology that may have an impact and fosters research, innovation, and entrepreneurship from Year I.





INNOVISTA'25 proved that when students work with passion and purpose, they don't just organize an event they leave a legacy."

Before the first spotlight lit up INNOVISTA'25, a quiet wave of passion had already begun. Students united with a purpose — not just to host an event,





"Coming together is a beginning, staying together is progress, and working together is success"

Before the first spotlight lit up INNOVISTA'25, a quiet wave of passion had already begun to ripple through the campus. It wasn't just about putting together a fest — it was about building something that resonated with purpose and pride. Students came together, driven by a shared vision to create an event that was more than just competitions and exhibitions.

They aimed to craft an experience that celebrated innovation, highlighted creativity, and showcased the power of unity. Every idea pitched, every meeting held, and every challenge faced reflected their unwavering dedication.

What they built wasn't just an event — it became a dynamic celebration of teamwork, imagination, and the incredible potential unlocked when young minds collaborate with heart.

What made INNOVISTA'25 unforgettable wasn't its scale — it was the unity behind it. With vision, teamwork, and heart, students didn't just plan an event — they built something truly extraordinary.



ТНАМКУОИ

DHANUR SRUTHI S B.Tech BT 1st Year(E&T) BI1

FRAMEWORKS & FOOTPRINTS

IGEN ENERGATHON SDG AWARDS 2025 – HONOURING SUSTAINABILITY CHAMPIONS

The Faculty of First Year Engineering and Technology at Dr. M.G.R Educational and Research Institute successfully conducted the Fevicryl Art and Craft Event 2025, which was an immersive workshop for five days from May I2 to May 16, 2025 for 30 first-year students from around the region, each day from 9:30 AM to 3:00 PM. It was exciting event allowing students to express their creativity in art and craft with hands-on activities. The workshop introduced ten different art and craft techniques including Lino cut, Pichwai art, Warli art, clay fridge magnets, macaron keychains, donut photo frames, bottle painting, Kerala mural pouch painting, 3D liners bottle art, and Madhubani tray designs. The activities consisted of expert demonstrations, students working on their own, and student practice and showcases. Each day included a whole spectrum of creative education while giving students an opportunity to discover and develop their creative talents and appreciation On the last day of the workshop, a Certificate Distribution Ceremony place, acknowledging the students' took commitment and the fruit of their creativity. The presence of the Joint Registrar and coordinators added to the impact of the event and reinforced the institution's efforts towards holistic education. Overall, this could be seen as a unique effort to incorporate technical education with creative education, leaving students with enhanced skills, confidence, and collaborative nature.



"Sustainability is not just a goal—it's a responsibility. Every action we take today shapes the world we live in tomorrow."



INDUSTRIAL VISIT TO AIEMA



As part of the academic enrichment efforts, the First Year Engineering and Technology students conducted an industrial visit to AIEMA (Ambattur Industrial Estate Manufacturers' Association) on 16th June 2025. The Ambattur site in Chennai provided students with a first hand experience on the functions of an industrial manufacturing site as well as the production processes in real time.

On arrival at AIEMA, the students were given a warm reception and were divided into four smaller groups for better interaction and personalized learning. The students were assigned a number of guides, all of whom were professionals in the industry and they planned detailed pathways through the various departments handling of raw materials to 'fitting' the finish products, and provided the students with an off the book - exposure to the supply chains, workflows and safety in industrial settings.

Student's learning opportunities were enhanced by the welcoming and enthusiastic support of the staff at AIEMA, who were happy to explain each stage of the process, answer questions and support open discussion. The collaborative approach enabled staff to engage students so that they could actually see in real time what they may have learned about in the classroom.

The visit provided an excellent introductory step to assist in the formation of industry-ready engineers, by enabling students to love to learn beyond the textbook and gain problem-solving and practical insights into production in a real environment.

THE BREAKTHROUGH BULLETIN RYLA 48.0 SUCCESS & OPPORTUNITY – IGNITE THE LEADER WITHIN!



We are excited to announce the amazing accomplishments of our First Year CSE(DS&AI) and CSE-AI students during RCV PG RYLA 48.0 in Madurai on June 20-22, 2025. This three-day summit brought together youth leaders from across the state for a summit of aspiring changemakers organized by the Rotary Youth Leadership Academy (RYLA).

Y Janakaraj N. received the Best Business Chart as well as Runner Up for overall events earning a cash prize of ₹1500. Janakaraj was also selected as one of the Top 10 Emerging Entrepreneurs and qualified for Race to FTS 10.0 - Singapore!

Y Ashwin Kumar J.J. and team were overall winners, as well as the Best Business Chart Award with a cash prize of ₹2500.

 $rac{1}{2}$ S.M. Sameer also won a Best Video Award selected for the Mumbai I.O competition.

The leadership, creativity and presentation skills of each stood out among the best and helped make the First Year E&T community proud. We also want to express our heartfelt thanks to our Honourable President for always believing and treasuring student excellence.



FIRST YEAR E&T STUDENTS SHINE AT IQAC PAPER PRESENTATION COMPETITION

We are very excited to inform you that the students of class of First Year Engineering and Technology have achieved exceptional success in the Paper Presentation Competition which was held as part of the IQAC Conference, an event hosted by our University's Internal Quality Assurance Cell (IQAC). This conference focuses on promoting a research culture, innovation, and analytical thinking in students, regardless of discipline.

With clarity, originality, and presentation skills that did justice to their content, the First Year students took Ist, 2nd and 3rd prize:

- Y Ist Place Mr. Arcot Nandha Kumar & Team ₹2000
- 🥈 2nd Place Mr. Sanath Skanda & Team ₹1500
- 🥉 3rd Place Mr. Md. Ashiq & Team ₹1000

The winning teams presented great research about contemporary topics, which was representative of not only their intellectual abilities but their commitment to excellence in academia. Their work showcases their talent and ability, but also stresses the importance of students promoting critical thinking and communication in our work at our Department.

We are grateful to our Honourable President for kindly providing the cash awards, and constantly encouraging our youth to pursue their passions. This is a very happy and proud day for First Year E&T, and we hope all of our students will endeavor to pursue a research style of learning from their very first day in university.



"Research is creating new knowledge."

~Neil Armstrong

IGNITING YOUNG MINDS THROUGH RESEARCH

Competitions such as paper presentations are important milestones in the academic trajectory of students. They stimulate curiosity, develop confidence and instill the ability think critically and to communicate effectively. By engaging in early competitions, students clarify the challenges of the modern day world, refine their problem solving strategies, and develop a more research oriented thought process. The role of paper presentation competitions is to not only acknowledge talent, but also enable young engineers to contribute to society through innovation and purposeful thinking.

WORLD MATHEMATICS DAY – RAMANUJAN DAY CELEBRATION 2024

The Department of Mathematics at Dr. M.G.R. Educational and Research Institute, Maduravoyal, proudly celebrated World Mathematics Day – Srinivasa Ramanujan Day on 22nd December 2024. The event honored the legacy of India's mathematical genius, Srinivasa Ramanujan, and aimed to foster a love for mathematics among students.

Around 30 enthusiastic students from First Year Engineering and Technology actively participated in a series of competitions, including Quiz, Poster Presentations, Essay Writing, and Drawing.

Motable Achievements by First Year E&T Students:

- Vertical Properties of Poster Presentation (Ist Prize): Akshay Kumar Jha (AAI)
- Jacobi Drawing Competition (Ist Prize): Priyadarshini (AH-2)
- First State Sta
- Sai Keerthiga (2nd Prize): Sai Keerthiga (BJI)
- Vertication (3rd Prize): Yasmin Begam (AI-2)

The celebration showcased the analytical, artistic, and expressive talents of students, while reinforcing the importance of mathematics in everyday life and engineering applications.





OUTSTANDING WINS AT SDG ETHIOS 2024

The Department of Mathematics at Dr. M.G.R. Educational and Research Institute, Maduravoyal, proudly celebrated World Mathematics Day – Srinivasa Ramanujan Day on 22nd December 2024. The event honored the legacy of India's mathematical genius, Srinivasa Ramanujan, and aimed to foster a love for mathematics among students.

Around 30 enthusiastic students from First Year Engineering and Technology actively participated in a series of competitions, including Quiz, Poster Presentations, Essay Writing, and Drawing.

Notable Achievements by First Year E&T Students:

- Foster Presentation (Ist Prize): Akshay Kumar Jha (AAI)
- Trawing Competition (Ist Prize): Priyadarshini (AH-2)
- Second Example: The second seco
- 🔹 🍸 Essay Writing (2nd Prize): Sai Keerthiga (BJI)
- Ø Poster Presentation (3rd Prize): Yasmin Begam (AI-2)

The celebration showcased the analytical, artistic, and expressive talents of students, while reinforcing the importance of mathematics in everyday life and engineering applications.



RAIN 25 – PERFORMER AWARDS

We proudly congratulate Arcot Nandha Kumar and Yogasree of First Year E&T for being awarded Best Male Performer and Best Female Performer at Rain 25, the University's cultural fest held in 2025.

We sincerely thank our Honourable President for recognizing their talents, and extend our appreciation to the Registrar and Rain 25 coordinators for their support in making the event a grand success.

INNOVISTA 2025 – VALEDICTORY CEREMONY

The Valedictory Ceremony of Innovista 2025 hosted by the First Year Engineering and Technology department brought a fitting end to an incredible showcase of innovation, creativity, and student talent. The ceremony showcased the spirit, excitement, and commitment shown throughout the event, as well as highlighted the excellent work by all students who attended.

Faculty members and invited guests took time to offer words of encouragement and praise to the students for their spirit of innovation and creativity, and encouraged the students to continue to think beyond the classroom and push their abilities further. Award winners and award participants were recognized with certificates, awards and acknowledgements for the extent of their commitment and performance.

The event also highlighted an important message about the relevance of creativity and critical thinking in engineering educational practices. Innovista 2025 left participants excited to renew their commitment towards practical, experiential learning in their future studies, and engaged for their next academic cycle.









IEI MEMBERS PRESENT SDG-ALIGNED PAPERS AT THIRUVANANTHAPURAM



Students of First Year Engineering and Technology, representing the IEI Students Chapter, participated in an external academic event held at Thiruvananthapuram, where they presented five impactful papers centered around socially relevant issues linked to the United Nations Sustainable Development Goals (SDGs).

A team of 15 students and 2 faculty members proudly represented Dr. M.G.R. Educational and Research Institute, engaging with peers and professionals from across regions. The papers addressed critical themes including sustainability, clean energy, climate action, and inclusive education—reflecting both academic depth and civic responsibility.

This participation marked a significant step toward nurturing socially conscious engineers and promoting research-based contributions to global challenges. The event offered students a valuable platform for intellectual exchange, presentation skills, and professional exposure.

We extend our heartfelt appreciation to the faculty mentors and the institution for continually encouraging such meaningful academic opportunities.



TVLC DIARIES



The Institution of Engineers (India), in association with various regional and student chapters, successfully conducted a series of impactful technical events and awareness programs from March to April 2025. These events offered a valuable platform for engineering students and professionals to gain practical insights, explore innovations, and engage with industry leaders.

Key highlights included:

- World Water Day (22nd March 2025): Focused on sustainable water resource management with keynote by Dr. Sheik Syed Ishak, K.A., hosted at Dr. M.G.R. Educational and Research Institute.
- World Engineering Day (8th March 2025): Held at IEI HQ, Chennai, emphasizing the role of engineers in achieving Sustainable Development Goals (SDGs), graced by Dr. Palanivel Thiagarajan.
- Technical Lectures:
 - 44th Technical Lecture (28th April): Addressed "Current Scenario of Precast Construction" by Mr. R. Manoharan.
 - 45th Technical Lecture (26th June): Discussed advancements in automotive technology with Mr. Karthik K. from Tata Motors.
- Online Sessions:
 - "Technology Trends" (28th March) by Dr. S. S. Saranya
 - "Applications of Operations Research in Logistics" by Er. Vijoce Maria Michael Raj
- Hands-On AI Workshop (29th March): Focused on building AI agents using LLM (Generative AI Models), conducted by Vinod Kumar J. at TVLIC.
- Felicitation Ceremony (I7th March): Honoring Dr. V. Narayanan, Chairman, ISRO PRL, for contributions to Indian space research.

These initiatives underline IEI's commitment to advancing engineering education, promoting sustainability, and preparing students for the evolving demands of industry and innovation.

WELCOME TO THE MYSTERY OF THE COSMOS

THE MORE WE LEARN ABOUT BLACK HOLES, THE MORE THEY PULL US INTO THEIR MVSTERIES.

BLACK HOLES

A black hole forms when a massive star collapses under its own gravity. This collapse creates a superdense point known as a singularity, surrounded by a boundary called the event borizon—a point of no return.



BLACK HOLES

Introducing The Mysterious Monsters of the Universe

Although black holes cannot be seen directly, scientists detect them by observing their influence on nearby stars and gas. The first real image of a black hole captured in 2019 was a breakthrough in astrophysics, showing the glowing halo of gas around a black hole in galaxy M87.

Powerful telescopes like James Webb and Chandra are unlocking more about how black holes shape galaxies.

What Makes a Black Hole So Special?

Once something crosses the event horizon, it's lost forever. That's why black holes appear "black"—light itself gets pulled in Scientists can't see black holes directly, but they observe how nearby stars behave. When stars orbit something invisible—or when gas heats up and emits X-rays as it falls in—they know a black hole is near.

In 2019, scientists captured the first image of a black hole using the Event Horizon Telescope. It was located in the galaxy M87 showing a glowing ring of gas around a shadowy center. It was a historic moment in astrophysics.

Why Black Holes Matter

Black holes aren't just sci-fi they help us understand: Time dilation near a black hole, time slows down! Gravitational waves from black hole collisions How galaxies evolve most have black holes at their center

The Image of the Black Hole

NASA image of the M87 black hole Artistic render of black hole and accretion disk Diagram of how a black hole is formed



Milky Way's center has a black hole called SagittariusA*

Some black holes are tiny, others weigh millions of suns

The movie Interstellar was scientifically accurate in its black hole scenes

THANKYOU

- S.SANATH SKHANDA B.TECH CSE(AI) 1st YEAR(E&T) BH1



With the end of the academic year, the First Year Engineering and Technology department is proud of the inspirational path of learning, leadership, imagination, and collaboration. This year was not just about books and classes, it was about knowledge in action, ideas into action, and students to active young contributors to society.

We began with Innovista 2025, where students showcased their knowledge through technical projects, model displays, and presentations, demonstrating that innovation begins on day one. Through initiatives like Innovation Vault, students received seed capital and patent aid to transform ideas into prototypes, creating further research and entrepreneurial environments.

Our presence was also being experienced off, campus, at Thiruvananthapuram, as I5 students presented SDG-focused research papers, and at Rain 25, as our students emerged victorious with the Best Performer medals.

The year also witnessed a strong commitment towards social responsibility in the form of "Ignite the Future" at SBM Primary School, SDG awareness programs, and other community interactions.

From industrial visits to Basin Bridge Coaching Depot and AIEMA Industrial Estate, to outshining in activities like SDG Ethios, IQAC paper presentations, and RYLA 48.0, our students went on embracing leadership, creativity, and service.

We concluded the year with a rich lineup of IEI and IGEN technical lectures, workshops, and national observance activities like World Water Day, World Engineering Day, and AI workshops on LLMs, constantly exposing our students to the very best in engineering innovation and sustainable practices.

Through all this, our students did not just participate, made their presence heard.

As we shut the door on a sensational year, we carry with us not just memories, but values, curiosity, collaboration, courage, and commitment. To every student who stood up, who spoke out, who designed, who built, who presented, and who inspired, Thank you.

To new beginnings, better ideas, and brighter futures. First Year E&T signs off this chapter with pride.

> AUTHOR Arrhat Nag B.Tech CSE(DS&AI) Ist Year (E&T)