

# ECHO.

JANUARY - MAY 2025



```
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  title: "CS DEPARTMENT NEWSLETTER",  
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  message: "Welcome to our celebration of innovation and achievement!",  
  highlights: [  
    "Academic Achievements",  
    "Student-led Activities",  
    "Cultural Events"  
  ],  
  curatedBy: "Editorial Team"  
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**CTRL  
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# Welcome to the Editorial !

## Editorial: Code That Connects Us – 2025 Vision

In 2025, coding is no longer just about syntax and software—it's about creating systems that connect people, solve real problems, and inspire progress across disciplines. As boundaries between technology, art, science, and society blur, computer science must evolve into a language of empathy and imagination.

At the CS Department, we believe in nurturing not just coders, but critical thinkers, ethical builders, and bold innovators. Whether you're designing apps, analyzing data, or exploring AI, let your work reflect curiosity, purpose, and a vision that reaches beyond the screen.

Let's make 2025 the year we build boldly, think ethically, and connect meaningfully.

~ Editorial Team, CS Department

## Editorial Board Members



**Prof. Gimy**  
**Staff Coordinator**



**Prof. Jayakrisnan R**  
**Chief Editor**



**Ivin Saji**  
**Student Coordinator**

# Director's desk



**Rev. Fr. Thomas Vargheese**

It is with great pride and immense joy that BMCE presents the academic achievements of our students and staff in this 2025 edition of our newsletter. This annual showcase not only celebrates the dedication, hard work, and excellence demonstrated throughout the year but also serves as a source of inspiration for our entire school community.

Recognizing these accomplishments is a vital step in encouraging continuous growth and upholding the high standards we strive for at BMCE. I extend my heartfelt congratulations to all achievers and offer my best wishes for the continued success of this meaningful initiative. Let us move forward with the same spirit of excellence and commitment in the years ahead.

# Principal's message

**Prof. Dr. L. Padma Suresh**

As we turn the page to another successful academic year, it is a moment of immense pride for BMCE to share the achievements of our students and staff in this 2025 newsletter. Each milestone highlighted here reflects the unwavering commitment, perseverance, and passion that define our school community.

This publication is more than just a record of accomplishments—it is a celebration of learning, leadership, and the pursuit of excellence. By honoring the efforts of our students and educators, we not only recognize their hard work but also encourage others to aim higher.

Congratulations to all who have contributed to making this year remarkable. May this initiative continue to inspire and uphold the spirit of excellence at BMCE.



# From HOD's desk

**Prof. Dennise Mathew**

It gives me great pleasure to present the 2025 edition of BMCE's academic newsletter—a tribute to the dedication, talent, and hard work of our students and staff. This compilation of achievements is a reflection of the vibrant academic spirit that defines our institution.

Every award earned, every milestone reached, and every goal accomplished is a step forward in our collective journey toward excellence. Sharing these successes not only brings well-deserved recognition but also motivates all members of our community to strive for even greater heights.

My sincere congratulations to all achievers, and best wishes for another year filled with growth, learning, and success.







# Vision of the institution

To become an icon of technical education that creates responsible professionals with social commitment.

# Mission of the institution

To provide the best learning with individual attention to students by imparting ICT enabled pedagogy, critical thinking skills and problem-solving to inspire lifelong learning with strict adherence to the principles of academic integrity and transform them into technically competent engineers

# Vision of the Department

To be recognized and respected as a premier institution producing computer professionals.

To create an energetic environment where ethics and morals are maintained & pay attention to edify the students to build value.

To enhance the placement of our students by fostering a better fit between their career goals, imbibing start-up ideas for entrepreneurship, and securing meaningful employment opportunities.

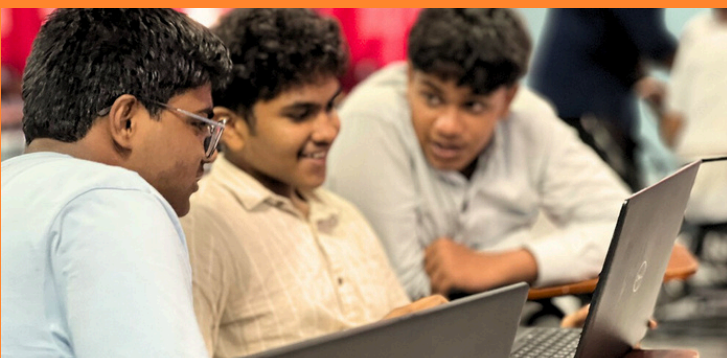
# Mission of the Department

To establish and manage a professional institution, which promotes academic excellence in students for meeting the ever-growing Information Technology demands.

To give a right understanding and to imbibe into the minds of the students a deep sense of morality and ethical standards so as to develop potential personalities.

To provide best infrastructural facilities, principle-centered education and competent faculty in the Institution.

To bestow special attention in molding the character of the students, enabling them to become responsible citizens.



The Department of Computer Science and Engineering at Baselios Mathews II College of Engineering, established in 2002, offers a B-Tech program with an intake of 120 students, plus six lateral entry seats.

The Department has experienced faculty with postgraduate and doctoral qualifications, actively involved in research and continuous professional development. With world-class infrastructure and modern facilities, it aims to provide quality education that builds a strong foundation for success in the global tech industry.



# DEPARTMENTAL NEWS

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## Graduating Class of 2025 CS Graduates of 2025

"From algorithms to ambition, from late-night debugging to bright new beginnings—you've built more than code. You've built futures."

Your journey through logic, innovation, and resilience has brought you here.

As you step into the next chapter—industry, research, startups, or something yet unimagined—know that the world needs the minds and values you've forged here.

Congratulations, Class of 2025. You didn't just graduate—you compiled success.

## Placed & Ready to Launch

"Not just placed — positioned to impact.

Your skills, persistence, and passion have opened doors to the future you've been building toward."

From writing code to cracking interviews, you've shown what determination looks like.

The offers may be letters on paper, but the value you bring is written in every project, every bug fixed, every challenge overcome.

Here's to new jobs, new roles, and a world waiting for your brilliance.



# DEPARTMENTAL NEWS



## S8 CS KTU Toppers – Academic Excellence Redefined

"Excellence isn't just about marks—it's about mindset.

These students didn't just top exams; they set standards."

With focus, dedication, and an unshakable work ethic, our S8 CS toppers have proved what it means to strive for the highest.

In a curriculum as rigorous as KTU's, they've not only kept up—they've led the way.

Your success inspires, your discipline uplifts, and your journey motivates the next generation of learners.

Congratulations to our Semester 8 CS Toppers —2025 belongs to thinkers like you

## Dual Strength, One Vision: Minor in Mechanical Engineering (KTU 2021–2025)

"Where code meets craftsmanship.

These students have gone beyond their core curriculum, embracing the challenge of mastering concepts from a second discipline."

Congratulations to our Computer Science students who have successfully secured a Minor Degree in Mechanical Engineering under the 2021–2025 KTU curriculum.

This achievement reflects your curiosity, commitment, and the ability to bridge software logic with real-world systems thinking.

In a world that values interdisciplinary talent, you've proven you're built for both innovation and versatility.

Well done—your efforts speak volumes, and your journey is just getting started.





# CAMPUS INDUSTRIAL PARK

Department of Industries & Commerce

Government of Kerala



BASELIOS MATHEWS II COLLEGE OF ENGINEERING

ഭാഗ്യദാമി

Tue, 13 May 2025

## ക്യാമ്പസ് ഇൻഡസ്ട്രിയൽ പാർക്കുകൾ ജില്ലയിൽ

ഇന്ത്യൻ ഇടവക

കൊല്ലം

സംസ്ഥാനസർക്കാർ കേരളത്തിൽ അനുവദിച്ച മൂന്ന് ക്യാമ്പസ് ഇൻഡസ്ട്രിയൽ പാർക്കുകളിൽ ഒന്നായ ജില്ലയിൽ. കൊല്ലം പ്രതിരോധ പൊളിയെക്ലിക്, ശാസ്ത്രാകാശ ബാസലിയേസ് മാത്യുസ് II കോളേജ് ഓഫ് എൻജിനീയറിംഗ് എന്നിവയെല്ലാം പാർക്ക് അനുവദിച്ചത്. ഇപ്പോൾ പൊതുവായ സെന്റ് ആന്റണീസ് പട്ടികയിലുണ്ട്. ഇതു സംബന്ധിച്ച സർക്കാർ ഉത്തരവ് കഴിഞ്ഞ ദിവസമിറങ്ങി. വിദ്യാഭ്യാസ സ്ഥാപനങ്ങളും വ്യവസായ സ്ഥാപനങ്ങളും തമ്മിലുള്ള അന്തരം കുറയ്ക്കുക, വിദ്യാർത്ഥികൾക്ക് പഠനത്തിനോടൊപ്പം ജോലിയും വരുമാനവും ഉറപ്പാക്കുക എന്നിവ ലക്ഷ്യമിട്ടാണ് പാർക്ക് തയ്യാറാക്കുക.



കൊല്ലം പ്രതിരോധ പൊളിയെക്ലിക്

ജില്ലാ വ്യവസായ ഓഫീസുകൾ കീഴിൽ ജില്ലാതല സമിതിയും വ്യവസായ സെക്രട്ടറിയുടെ നേതൃത്വത്തിലുള്ള സംസ്ഥാന സമിതിയും ആവശ്യമായ തിരഞ്ഞെടുത്ത 75 അപേക്ഷയിൽനിന്നാണ് മൂന്നു കോളേജുകൾ തിരഞ്ഞെടുത്തത്. ഏക്കറിൽ 20 ലക്ഷം രൂപ വച്ച് 1.5 കോടി സഹായം പാർക്കുകൾക്ക് ലഭിക്കും. ക്യാമ്പസ് വ്യവസായ ഏജൻസി ഡെവലപ്പർ അനുബന്ധമായി കേരള

സിംഗിൾ വിൻഡോ ക്ലിയർൻസോടുകൂടി, ഇൻഡസ്ട്രിയൽ ൭൦൯-ഷിപ്പ് ഏരിയ ഡെവലപ്മെന്റ് ആക്റ്റ് 1999ന്റെ പരിധിയിൽ എല്ലാ ആനുകൂല്യങ്ങൾക്കും സ്ഥാപനങ്ങൾക്ക് ഇനി മുതൽ അർഹതയുണ്ട്.

പ്രതിരോധ പൊളിയെക്ലിക് കോളേജിലെ അഞ്ച് ഏക്കർ സ്ഥലത്താണ് പാർക്കിന് അനുമതി. കോളേജിലെ സ്റ്റാർട്ടപ്പ് മിഷന്റെ അധീനതയിലുള്ള ഇറക്കാനം ഷൻ ആൻഡ് എൻ്റർപ്രൈസ് ഓഫ് ഡെവലപ്മെന്റുകളെയും ഇൻഡസ്ട്രിയൽ വിദ്യാർത്ഥികളെയും ഏൻ്റർപ്രൈസ് ഓഫ് ഡെവലപ്മെന്റുകളെയും ഇൻ്റർപ്രൈസ് ഓഫ് ഡെവലപ്മെന്റുകളെയും നേതൃത്വത്തിൽ നിരവധി പ്രോജക്റ്റുകൾ ഇതിനകം കൊണ്ടിടം പ്രതിരോധ പൊളിയെക്ലിക് വികസിപ്പിച്ചിട്ടുണ്ട്. ത്രിഡി പ്രിൻ്റ്, അഗ്രികൾച്ചർ പ്രോജക്ട്, എ ആർ ഐ എൻ്റർപ്രൈസ് പ്രധാനമാണ്. യാൺ

ഇന്നുമുറപ്പിന് പ്രോഗ്രാം 7.0 സാങ്കേതിക വിദ്യാഭ്യാസ മേഖലയിൽ കൂടുതൽ ആശയം നൽകിയതും കോളേജാണ്.

ഡോ. സി ടി ഇറപ്പൻ ട്രസ്റ്റിന്റെ കീഴിൽ 2002 ൽ ആരംഭിച്ചതാണ് ബാസലിയേസ് മാത്യുസ് II കോളേജ് ഓഫ് എൻജിനീയറിംഗ്. ബാസലിയേസ് മാത്യുസ് II കോളേജ് ഓഫ് എൻജിനീയറിംഗ് പാർക്ക് മാനേജ്മെന്റ് സ്റ്റുഡിസും ഇവർക്കുണ്ട്. രണ്ടാം ഏക്കർ സ്ഥലത്ത് മൂന്നു നിലകളിലായി 23, 000 ചതുരശ്രമീറ്ററിലാണ് പാർക്ക്. കേന്ദ്ര-സംസ്ഥാന സർക്കാരുകളുടെ സഹായത്തിൽ ഡിഡിയുജികെഐവ പദ്ധതി പ്രകാരം 35 വിദ്യാർത്ഥികൾ സിംഗിൾ ടെയിനിൽ പൂർത്തിയാക്കി ജോലിയിൽ പ്രവേശിച്ചിട്ടുണ്ട്. സർക്കാരിന്റെ യുവ കേരള പദ്ധതിയിൽ 105 പേർ പഠനം പൂർത്തിയാക്കി. സ്റ്റാർട്ടപ്പ് മിഷന്റെ സഹായവും കോളേജിന് ലഭിച്ചിട്ടുണ്ട്.

### Announcing BMCE's New Campus Industrial Park

We're excited to launch BMCE's very own Campus Industrial Park—a dynamic space where innovation meets industry, right here on campus.

Located in the heart of our Sasthamkotta campus, this new facility brings together:

State-of-the-art prototyping labs and maker spaces

Collaboration hubs for startups and external partners

Specialized support for student- and faculty-led research and development

### Why This Matters

- Hands-on Experience

Engage in real-world engineering, from hardware design to systems integration.

- Industry Synergy

Work closely with tech companies and mentors—gaining exposure through internships, joint projects, and mentoring.

- Entrepreneurial Launchpad

Nurture and develop startup ideas with the infrastructure and support needed to move from concept to prototype.

- Cross-Disciplinary Innovation

Foster collaboration across computer science, mechanical, electronics, and emerging technologies.

### Aligned with BMCE's Vision

The Campus Industrial Park reflects BMCE's commitment to technical excellence, practical learning, and innovation-driven education. It strengthens our role as a hub for interdisciplinary development, offering students and faculty an environment to experiment, create, and lead.



# MoU SIGNING CEREMONY



## **BMCE Signs MoU with Pinnacle Dubai to Empower Students with Global Internship Opportunities**

Baselios Mathews II College of Engineering (BMCE) is proud to announce the signing of a Memorandum of Understanding (MoU) with Pinnacle Dubai, a leading technology and innovation company based in the UAE.

This partnership opens up exclusive internship opportunities for BMCE students, enabling them to gain valuable international exposure, hands-on industry experience, and insights into cutting-edge technologies.

Through this collaboration, Pinnacle Dubai will provide structured internship programs, mentorship, and project-based learning to help students develop skills that meet global standards. This initiative aligns with BMCE's vision to prepare students for the demands of the modern workplace and foster global competencies.

We are excited to offer our students a gateway to professional growth and cross-cultural learning, strengthening their career prospects and nurturing future-ready engineers.

# ICCPCT 2025



Conference Record No 65132 IEEE Kerala Section IEEE

8<sup>th</sup> INTERNATIONAL CONFERENCE ON  
CIRCUIT, POWER AND COMPUTING TECHNOLOGIES

**ICCPCT-2025**

7<sup>th</sup> & 8<sup>th</sup> August 2025

Technical Co-Sponsor IEEE Kerala Section

Organized by  
**Baselios Mathews II College of Engineering**  
Lake View, Muthupilakadu, Poruvazhy (P.O.), Sasthamcotta - 690 520  
Kollam, Kerala State, India.

**Publication**  
All registered and presented papers shall be submitted to IEEE for publication in IEEE Xplore

**Submission**  
Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this conference.  
The manuscripts should be submitted through the following link : <https://cmt3.research.microsoft.com/ICCPCT2025>

**Important Dates**

1	Call for Paper starts	1 <sup>st</sup> January 2025
2	Paper submission Dead Line	15 <sup>th</sup> April 2025
3	Notification of acceptance	12 <sup>th</sup> July 2025

## ICCPCT 2025 – Advancing Innovation Through Research and Collaboration

Baselios Mathews II College of Engineering is proud to host the International Conference on Communication, Power, and Computing Technologies (ICCPCT 2025), scheduled for August 2025.

This prestigious conference will bring together researchers, academicians, industry professionals, and students from around the globe to share their insights, innovations, and developments across the fields of communication systems, power electronics, embedded computing, and intelligent systems. ICCPCT 2025 aims to foster a collaborative environment that encourages knowledge exchange, promotes interdisciplinary research, and explores the future of sustainable and intelligent technologies. The event will feature:

Keynote addresses by globally renowned experts

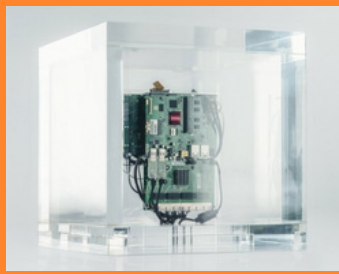
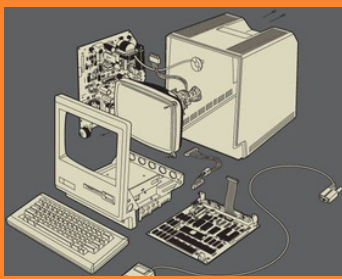
Technical paper presentations across emerging domains

Workshops and panel discussions with industry leaders

Networking opportunities for researchers and innovators

This conference reflects BMCE's commitment to driving impactful research and creating a platform for global academic dialogue.

We invite scholars, engineers, and students to be a part of ICCPCT 2025 and contribute to shaping the future of technology and innovation.



# Tech Snippets!

## AI-Powered Generative Design: Revolutionizing Engineering Creativity

Generative Design is an innovative technology that leverages artificial intelligence to create optimized designs based on specified goals and constraints. Instead of manually drafting each iteration, engineers provide the AI with requirements like materials, performance targets, and manufacturing methods, and the system generates numerous design alternatives automatically.

This approach drastically accelerates the design process, often producing unexpected and highly efficient solutions that might be overlooked by traditional methods. It is transforming industries such as aerospace, automotive, and architecture by reducing material usage, improving product performance, and lowering costs.

With advancements in AI algorithms and computational power, generative design tools are becoming increasingly accessible, enabling engineers and designers to push creative boundaries and innovate faster than ever before.

As this technology matures in 2025, it promises to reshape how we think about engineering, moving from human-driven drafting to AI-augmented creation.

~ Dr. Kavitha V K

## Sustainable Computing: Greener Tech for 2025

Sustainable computing is becoming a crucial focus as the demand for data processing and digital services grows exponentially. This approach emphasizes designing, manufacturing, and using computing technologies in ways that minimize environmental impact.

By optimizing energy consumption, reducing electronic waste, and utilizing renewable energy sources, sustainable computing aims to create eco-friendly IT infrastructures. Innovations such as energy-efficient processors, AI-driven resource management, and circular economy practices are helping organizations reduce their carbon footprint.

In 2025, sustainable computing is not only an ethical imperative but also a business advantage, with companies and institutions investing in greener technologies to meet global climate goals and regulatory standards.

This shift encourages engineers, researchers, and users alike to think beyond performance—towards responsible innovation that supports a healthier planet for future generations.

~ Vaishnavi S