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BASELIOS MATHEWS II COLLEGE OF ENGINEERING

MAY - AUGUST 2022

A glimpse into the vibrant life at BASELIOS MATHEWS II COLLEGE OF ENGINEERING — featuring events, milestones, and student achievements.

ECHO.

Director's desk

Rev. Fr. Thomas Vargheese

As we turn the pages of this academic newsletter, we are reminded of the dedication and perseverance that define BMCE. The milestones reached in 2022 are a testament to our collective pursuit of knowledge and innovation. May this spirit continue to inspire our community in the years to come.

Principal's message

Prof. Dr. L. Padma Suresh

It is a pleasure to witness the release of this newsletter, which encapsulates the spirit, creativity, and determination of our students and faculty. My heartfelt appreciation goes to the editorial team for crafting such a meaningful compilation of our collective success.

Faculty's message

Prof. Jayakrishnan R

It is a pleasure to guide bright minds as they prepare for the challenges ahead. We strive to create an academic culture that promotes inquiry, innovation, and lifelong learning. Through practical exposure and consistent mentorship, our students develop not only technical expertise but also the ability to think critically. I trust they will emerge as capable professionals and leaders ready to make a meaningful impact.

Vision of the Department

To be recognized and respected as he best 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.

BMCE Sasthamcotta: Empowering Kerala's Higher Education Landscape

In the heart of Sasthamcotta, nestled amidst the serene beauty of Kerala, stands Baselios Mathews II College of Engineering (BMCE)—a beacon of academic excellence and innovation. Since its inception, BMCE has steadily evolved into a vital force shaping the landscape of technical education in the state, offering aspiring engineers not just a place to study, but a place to grow, experiment, and lead.

What sets BMCE apart in Kerala's higher education ecosystem is its commitment to holistic development. With a curriculum that goes beyond textbooks, the college focuses on nurturing critical thinking, problem-solving, and industry-readiness among its students. The synergy between theory and practice is evident in the college's emphasis on internships, hands-on labs, research initiatives, and a vibrant student community that thrives on collaboration.

The impact of BMCE extends beyond academics. By consistently producing skilled graduates who are well-placed in industry, academia, and public service, the college has contributed to enhancing the quality of Kerala's engineering workforce. Alumni of BMCE are now working in leading firms across India and abroad, and many are pursuing higher studies at prestigious institutions—bringing recognition not only to themselves but also to their alma mater.

The college's proactive Training and Placement Cell, regular industry interactions, and robust mentorship from experienced faculty ensure that students are not just employable, but truly future-ready. BMCE's alignment with the changing demands of the tech world—whether in artificial intelligence, sustainability, or emerging tools—makes it a model for institutions across the state.

Moreover, BMCE has played a significant role in democratizing access to quality engineering education in central Kerala. Drawing students from rural and semi-urban regions, the college has become a gateway for many first-generation learners to enter the world of engineering and technology. It has turned dreams into reality for students who may not have had access to premier institutions in cities.

Community involvement is another area where BMCE leaves a mark. Through NSS activities, environmental initiatives, and outreach programs, the college instills a sense of social responsibility among students. This integration of values, knowledge, and service makes BMCE more than just an engineering college—it is a catalyst for change in society.

As Kerala continues to strengthen its position as a hub for innovation and knowledge, institutions like BMCE Sasthamcotta are leading the way. By staying rooted in its values while reaching for global standards, BMCE is not only contributing to individual student success but also helping shape the future of higher education in the state.

Why Every Engineer Should Embrace Emerging Technologies

— Students' Corner, BMCE Newsletter

Technology is evolving faster than ever before, and as engineering students at Baselios Mathews II College of Engineering (BMCE), we are standing at the edge of a future that's being redefined every day. Artificial intelligence, blockchain, robotics, augmented reality, quantum computing—these are no longer futuristic buzzwords. They are shaping the industries we'll soon be part of. And the sooner we engage with these emerging technologies, the better prepared we'll be to thrive in this fast-changing world.

At BMCE, students have the advantage of learning in an academic environment that encourages innovation and experimentation. Beyond the syllabus, many of us are already exploring tools like Python for machine learning, TensorFlow for AI modeling, and platforms like Arduino and Raspberry Pi for IoT applications. These are not just cool tech toys—they're the building blocks of tomorrow's world.

Take a look around campus, and you'll see students working on mini-projects involving automation, predictive analytics, and smart energy systems. Clubs like the Tech Club have hosted workshops on blockchain basics, ethical hacking, and even AI-generated art. These events aren't just about acquiring knowledge—they're about building the mindset to adapt, learn, and lead.

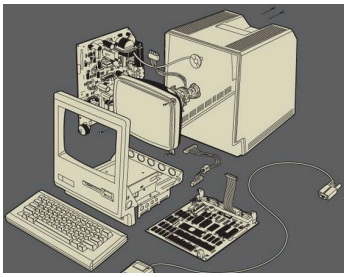
What's exciting about emerging tech is that it's interdisciplinary. A mechanical engineering student working on robotics can collaborate with a computer science student building the AI, while an ECE student designs the circuit. This convergence is the future, and BMCE is laying the groundwork by fostering collaborative spaces where these interactions naturally happen.

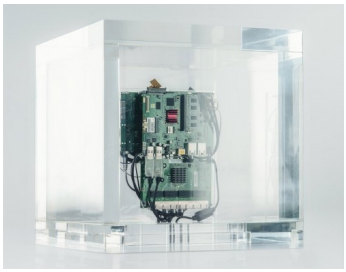
Industry trends show that recruiters now look beyond just academic scores—they're keen to see if students are familiar with real-world tools, new technologies, and problem-solving platforms. Participating in online courses, contributing to open-source projects, or simply staying updated through tech podcasts and blogs can set you apart in a competitive job market.

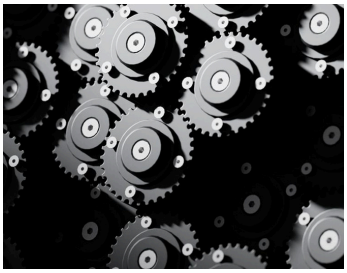
The beauty of emerging tech is that it doesn't demand perfection, only curiosity. You don't have to be an expert in everything; just being willing to explore, tinker, and learn is enough to get started. And at BMCE, with the support of mentors, access to labs, and the encouragement to think big, there's no better place to begin your journey.

So whether you're dreaming of building the next great app, contributing to clean energy solutions, or creating smarter cities, now is the time to dive into the world of emerging technologies. The future isn't waiting—and neither should you.

— Aswin S







Tech Snippets !

Blockchain Beyond Cryptocurrency: Unlocking Decentralized Possibilities

While often associated with Bitcoin and digital currencies, blockchain technology extends far beyond finance. At its core, blockchain is a secure, decentralized ledger system that can record transactions transparently and immutably. This makes it ideal for applications like digital identity, supply chain tracking, voting systems, and intellectual property protection.
Industries such as healthcare, agriculture, and logistics are now exploring blockchain for its potential to improve security, transparency, and trust. For students in tech, learning about blockchain opens the door to contributing to decentralized apps (dApps), smart contracts, and secure systems that could reshape how the world handles data and transactions.

~ Ivin Saji

Robotics and Automation: Engineering the Workforce of Tomorrow

Robotics is no longer just a futuristic dream—it's becoming an essential part of industries ranging from manufacturing and logistics to healthcare and disaster response. Modern robots can assemble cars, deliver packages, assist surgeons, and even explore inaccessible terrains.
With automation and AI working hand-in-hand, robots are now capable of learning, adapting, and performing complex tasks with precision. This growing field calls for engineers and innovators to design smarter machines, build intuitive interfaces, and ensure ethical deployment in society.
Robotics blends mechanical design, electronics, programming, and systems thinking—making it an exciting, interdisciplinary frontier for students and researchers alike.

~Gouri Krishna