



MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY
AUTONOMOUS

College Code : MBT. Accredited by NAAC with A grade. Five B.Tech Programmes accredited by NBA since 2016.

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BCET
Bulletin

PRINCIPAL'S MESSAGE



Advances in space technology are transforming the space industry, enabling more efficient, sustainable, and cost-effective space exploration. These include advances in Satellite Technology, Space Launch and Propulsion, and Space Exploration and Habitation among many others. India has a space vision outlined in its framework 'Space Vision 2047', aimed at positioning India as a global leader in space exploration, driving innovation through cutting-edge technology, ground-breaking scientific research, and sustainable socio-economic growth. The Human Spaceflight Program has an objective of establishing a space station by 2035 and sending astronauts to the Moon by 2040. The Lunar Exploration is intended at conducting sample return missions and establishing a sustained human presence on the Moon. Through its ambitious plans India is also targeting a significant share of the fast expanding global space market and promoting private sector participation. The United Nations General Assembly declared World Space Week in 1999 which is being celebrated annually all over the world from October 4 to 10. The theme for World Space Week 2025 is "Living in Space," focusing on humanity's journey toward making space a habitat. This theme emphasizes innovative technologies, challenges, and collaborative efforts required to sustain human life in outer space.

Dr. S. Viswanatha Rao

TABLE TENNIS CHAMPIONS

The MBCET Men's Team and Women's Team secured the Championship and Runner-Up positions, respectively, in the APJ AKTU A-Zone Inter-Collegiate Table Tennis Championship held at CET on 06 October 2025.



INTEL UNNATI ONLINE COURSE

Ms. Manju Sreekumar, Asst. Prof., EED successfully completed the Intel Unnati online course "Get started with Generative AI" on 24 September 2025.

WORKSHOP AND HANDS-ON SESSION ON RISC-V VEGA PROCESSOR



The Dept. of CSE organized a one-day workshop and hands-on session on the RISC-V Vega Processor, conducted by CDAC Trivandrum for the S5 CSE students on 29 September and 07 October 2025. The Experts from CDAC provided valuable insights into the RISC-V architecture and its applications in modern computing. Co-ordinators: **Ms. Jisha Jose** and **Mr. Shon J. Das**, Assist. Professors in CSE.

TLC SESSION CONDUCTED.

The Teaching Learning Centre MBCET organized a Microteaching Evaluation Session for 11 faculty members on 24 September 2025. A panel of three experts from Mar Theophilus Training College and one program-specific expert from each Department evaluated the recorded videos of the faculty members.

CAREER IN SOFTSKILLS



Illumina, Association of the Dept. of EEE organised a talk on "Career in Soft Skills" on 18 September 2025 for final year EE and EL students at Faraday Hall. **Mr. Bipin V. L.**, Technical Head, Electrical Department, CADPOINT was the resource person.

PAPER PRESENTED

Ms. Lekshmi I., Asst. Prof., Dept. of S&H presented a paper on "An Extended Approach of F-NoVaRM for Sustainable Development - A Case Study in Selection of Airport Location" in the National Conference on Advances in Fractal Analysis and Geometric Functions organized by Malankara Catholic College, Kaliakkavilai, Tamil Nadu on 19 September 2025.

Vision: To be an Institution moulding globally competent Professionals as epitomes of Noble Values.

Mission: To transform the Youth as technically competent, ethically sound and socially committed professionals, by providing a vibrant learning ambience, for the welfare of humanity.



CTF ONLINE SESSION

Illumina, Association of the Dept. of EEE in association with Offenso Hackers Academy Tvm, Organized an Online CTF Session for beginners on 27 September 2025. CTF (Capture The Flag) is a cybersecurity competition where players solve real-world hacking challenges to find hidden “flags”. The session was handled by **Mr. Ans A.** (R&D Team Member, Offenso Hackers Academy, Tvm | CTF Developer)

STUDENT PLEDGE CEREMONY AS PART OF WILDLIFE WEEK AWARENESS DRIVE



To emphasize the critical importance of conservation, Illumina, Association of the Dept. of EEE coordinated a Wildlife Pledge Ceremony on 06 October 2025, as part of the statewide observance of Wildlife Week. This government-mandated event was aimed at securing the active participation and fostering deep awareness among students regarding the urgent need to protect forests and wildlife for a sustainable future.

INDUSTRIAL VISITS



- 96 students (S5 EL:47 & S5 EE:49) from Dept of EEE went for two days Industrial Visit at Meencut Generation Circle (Pallivasal Hydroelectric Project in Idukki, Sengulam Power House) and Kerala Electrical & Allied Engineering Co. Ltd. (KEL) Mamala on 03 October 2025 and 04 October 2025. They were accompanied by **Ms. Surasmi N. L., Dr. Anil J., Ms. Revathy K. P., Mr. Ayush Vijayan, Ms. Neetha Chandran**, Asst. Professors, EED.
- 56 students from, Dept. of EEE went for one day Industrial Visit at Mattupetty Dam and Power House at Munnar on 30 September 2025. They were accompanied by **Ms. Sheenu P. and Mr. Midhun G.**, Asst. Professors, EED.



AI AND IOT INNOVATIONS IN AGRICULTURE

Illumina, Association of the Dept. of EEE organised a talk on "AI and IoT innovations in Agriculture" on 26 August 2025 for final year EE and EL students at Faraday Hall. **Dr. V. S. Santhosh Mithra**, Principal Scientist (Computer Science and IT) ICAR-CTCRI was the resource person.

YOGA TEAM WINNERS

MBCET Yoga Woman team bagged Third Position in the APJAKTU Inter Zone Yogasana championship



held at St. Joseph College of Engineering and Technology, Pala.

PH.D. AWARDED

Ms. Lekshmi I., Asst. Professor, S&H, has been awarded Ph.D. from Manonmaniam Sundaranar University, Thirunelveli, for the topic “A Study on Decision-Making Under Fuzzy Environments.”

PUBLICATIONS

- Dr. Arun M. G.** et. al. published a research article titled "Acoustic characteristics of wall jets in the developing regime" in the International Journal of Aeroacoustics in September 2025. <https://doi.org/10.1177/1475472X251382216>
- Dr. Vivek V. Kamal** et. al. published a research article titled “Optimization and tribological evaluation of graphene oxide coating on surface-textured AISI 52100 steel using Taguchi method” in the SAGE Journal on ‘Tribology - Materials, Surfaces & Interfaces’ in September 2025. <https://doi.org/10.1177/17515831251378586>
- Dr. Vivek V. Kamal** et. al. published a research article titled “Enhancement of Tribological Behavior of PTFE-Coated AISI 52100 Alloy Using Graphene Oxide and Laser Texturing: A Study Using Custom-Developed Dip Coating Setup” in the SPRINGER NATURE Journal on ‘Materials Engineering and Performance’ in September 2025. <https://doi.org/10.1007/s11665-025-12167-5>



EXPERT TALK BY FACULTY MEMBERS

Dr. Nidhi M. B., Professor MED delivered a talk on the topic 'Unlock Human Centric Smart Manufacturing in 2025: Leveraging AI, Digital Twins, and Quality Intelligence' at the one-day national seminar on "AI at work – Smart way to Manufacturing – Challenges and Way Forward" organised by the Institution of Engineers (India) Kerala State Centre, in association with GEC Barton Hill on 07 October 2025.

ELEVATE 2025 ORGANISED

On 07 October 2025, e-Nix, the Dept. Association of ECE, hosted ELEVATE 2025, the first edition of its



dynamic welcome event for the incoming ECE batch. The session opened with a welcome address by **Dr. Luxy Mathews**, HoD, Dept. of ECE, followed by an engaging introduction to e-Nix by **Mr. Niyas K. Haneefa** (Faculty Coordinator) and **Karthik R.** (Chairperson, e-Nix), who offered a glimpse into the association's purpose, projects, and upcoming ventures. The event continued with a series of technical and fun activities that the students thoroughly enjoyed.

HANDS THAT SPEAK – INDIAN SIGN LANGUAGE WORKSHOP BY IEEE EMBS

The IEEE EMBS Student Chapter of the College conducted "Hands That Speak", a beginner-friendly



Indian Sign Language (ISL) workshop, on 3rd October 2025. The session was led by **Ms. Sherin Joseph**, Senior Office Assistant (Library), who introduced participants to basic ISL signs and simple conversations, showcasing the beauty of communication beyond sound.

17 enthusiastic participants attended the event. Student Coordinators: **Malavika A.** (S5 CS) and **Pavithra S. S.** (S3 CS). Faculty Coordinator: **Dr. Lani Rachel Mathew**, Asst. Professor, ECED.

SHRIIEEEK 2025: WELCOMING FRESHERS



ShrIEEEk, the flagship event of the IEEE Student Branch (SB) MBCET for freshers, was conducted with 187 first-year student participants across Departments, on 27 September 2025 at Olympia. The event began with **Ms. Sreya Krishnan** (IEEE SB Chair) and **Mr. Chandrashekhar S. Nair** (IEEE SB Vice Chair) sharing their experience how IEEE has been instrumental in shaping their personal and professional growth. The participants, supported by 26 IEEE MBCET volunteers, were presented with a series of interactive technical challenges organized by the Execom members of the IEEE Society Chapters: Computer Society (CS), Engineering in Medicine and Biology Society (EMBS), Power & Energy Society (PES), Robotics & Automation Society (RAS) and Signal Processing Society (SPS). The Women in Engineering (WIE) Affinity Group conducted a treasure hunt Prizes were distributed to the winning teams by **Dr. Lani Rachel Mathew**, IEEE SB Counsellor, and **Ms. Sandhya P.**, IEEE PES Faculty Advisor.

THE KARMA HUNTERS OF JULY 2025

Introducing the Top XII Karma Miners of μ Learn MBCET in July 2025. **Benosh** (S1 CT) leads the charts with 8611 Karma Points. Our campus also leads the Global Monthly Campus Leaderboard with a total of 1,62,000 Karma points.

INTERNATIONAL COLLABORATIONS

MBCET has signed an MoU with Universiti Teknologi Malaysia, Johor, Malaysia (ranked #153 in the latest QS World University Rankings) on 10 October 2025. The partnership will focus on academic and research collaboration, promote exchange of faculty/students, offer internships, undertaking joint research projects and studies, co-organizing seminars, symposia and certificated courses.

Managing Editor: Fr. John Varghese Palanilkunnathil, Director
Email: director@mbcet.ac.in

Editor: Prof. Dr. George Zacharia

Chief Editor: Dr. S. Viswanatha Rao, Principal
Email: principal@mbcet.ac.in

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