

# **IEEE REPORT 2023-2024**

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- Faculty Advisor: Ms. P. Sandhya
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- Faculty Advisor: Ms. Ann Mary Alex
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- Faculty Advisor: Ms. Ann Mary Alex
- Chair: Shawn George

## **IEEE REPORT**

The **Annual General Meeting** of IEEE SB MBCET was conducted on 15th February 2023. The ex-execome members handed over the duties to the new execom members under the guidance of Branch Councillor Mr. Jinu Baby. The new Execom members for the year 2023-24 led by Chairperson Vignesh K were introduced by Prof. Dr M J Jayashree, IQAC Coordinator. It was discussed to work on a common goal which was to introduce more quality and technical events to reach out to more students. We also planned to focus on increasing the membership in the upcoming year.

We kicked off with an offline session on the **National Seminar on Electric Vehicles**. IEEE PES MBCET organized the event in collaboration with the Department of Electrical and Electronics Engineering of Mar Baselios College of Engineering and Technology on 17<sup>th</sup> February 2023. The session was handled by four distinguished speakers Shri J Manoharan(Head, E Mobility Cell and Technical Manager, ANERT), Dr. Sooraj Varikkottil (Specialist, TATA Elxsi) and Shri Pradeepkumar Keloth (Industry Leader -Electrification, previously with Skill Lync, Robert Bosch Engineering and Business Solutions) and Ms Bhavya Y V(Scientist-E at CDAC Trivandrum). System Engineering Approach to EV Design, Wireless Charging, and its issues, Advancements in Energy Storage Systems, and EV Charging from Renewable Energy Systems were the major topics covered.

As a part of the **World Engineering Day Celebration for Sustainable Development**, IEEE PES in association with the Department of Electrical and Electronics Engineering, MBCET co ordinated program organized by The Institution of Engineers (India) Kerala State Centre in association with MBCET on 4<sup>th</sup> March 2023. The Chief Guest of the event, IEI Kerala State Centre. Prof K. P. Sudheer. He delivered an impressive lecture on the theme "**Engineering Innovation for a More Resilient World**" which was followed by interaction with the audience.

As a part of the **WIE Week Celebrations** of 2023, two events were conducted by IEEE WIE MBCET in association with IEEE WIE Kerala Section, IEEE SBs of CET, RIT, LBSCEK, and Civil20 India 2023 at College of Engineering Trivandrum. The events conducted were **Vission Quest and Poetry Panache 2.0** .Vission Quest: Meet the Leaders was conducted on March 09th.The session delved into women's empowerment in the engineering domain. The Speaker of the session was Mrs. HEMA GOPALAKRISHNAN, founder & CEO, of Insight for Innovation. The second event was Poetry Panache 2.0. It was a poetry competition based on Gender Equality.

As a part of **Science Month** all the societies collaborated to put forward three events based on the theme Global Science for Global Wellbeing. The events were:  
**Hassle**, the debate competition was conducted by IEEE PES MBCET & IEEE WIE MBCET on 24th March 2023. The winners of this competition were: Aleena Scariah (S6 CS2) & Aparna S (S6 EE1).

**Intellectus**, the technical report writing competition was conducted by IEEE RAS MBCET & IEEE SPS MBCET on 29th March 2023. A total of 20 students participated in this event. The winners of this competition were: Josy George(S2 CE), Neha Arun (S4 CSE)& Gouri Sankar S ( S4 EC2).

**Exquizits**, the quiz competition was conducted by IEEE EMBS MBCET, IEEE SIGHT MBCET & IEEE CS MBCET on 31st March 2023.30 students participated in the event. The winners of this competition were: Ansen Lovejen Thomas (S6 EC1) & Merin Grace Mathew (S6 CS2)

IEEE EMBS MBCET organized an internship on **Assistive Technology** from 17th to 28th April. The objective of the internship was **incorporating disability inclusion in society**. The first week of the internship program provided sensational sessions including visits were organized. The second week of the internship gave an insight into how the various assistive technology solutions promote disability inclusion and participation in society. The internship sessions further comprised the demo of the assistive technology-related projects done by the final year B. Tech students at MBCET.

On 22<sup>nd</sup> April 2023, as a part of IEEE PES DAY 2023, celebrations on the theme of “**Powering A Climate Safer Future**”, IEEE PES SB MBCET conducted a talk session on “*The Role Of Sustainable Energy For A Safer Future*” by Dr. Dishore SV, Assistant Professor, MBCET.A total of 47 participants attended the session.

**Eco-Blogging**, a blog writing competition was also conducted as a part of IEEE PES DAY 2023 on 24th April. The winners of this competition were Abhijith S & Shalu U S.

The “**Do-A-Doodle**” doodle art competition was conducted by IEEE PES SB MBCET, as a part of IEEE PES DAY 2023 celebrations. The competition was open to all colleges. The topic given was “Go green-Reduce your impact on the environment for betterment”.The winners of this competition were Adarsh H & Steena James.

**Enthalpy**, a one-day Membership development session was conducted by IEEE Travancore Hub in collaboration with IEEE Link and IEEE Region 10 student activities committee on the 20th of May, 2023.

The **Environment Day** celebrations were conducted by IEEE SBC MBCET in collaboration with IEEE PES SBC MBCET on the 9th of June,2023. A total of 10 students and 4 faculty members participated in the event. A sapling was planted in the Chapel premises by the chair, secretary, and faculty advisor of PES. The Environment Day oath was taken.

IEEE CS MBCET conducted Codesprint a three-day boot camp about   and . It was conducted exclusively for first and second-year students. It aims to provide a basic introduction to web and app development to students. The event was held on June 16,17 and 18. The speakers of the event were Ben George Netto, Gopal S, and Liya Susan Biju. A total of 74 students participated. The boot camp concluded with a project submission.

**PRINTATHON** was a distinguished Hackathon organized by IEEE RAS MBCET. The event took place on the 21st and 22nd of June 2023. The central theme of the Hackathon revolves around identifying challenges within the college vicinity and devising 3D printing-based solutions to address them. Eleven teams registered for the event. The selected solutions were 3-D printed and implemented ensuring their successful utilization. The winners of the competition were: Team Agents of Kerala.

The "**PRINT POLYGON**" workshop, organized by IEEE RAS SB MBCET at MBCET, took place on the 24th of June 2023 as an engaging offline event. The workshop was conducted by Mr Vignesh Kailas, Chairperson of IEEE SB MBCET, and Mr Abhishek S S, Chairperson of IEEE RAS SB MBCET. Its focus was on enlightening participants about the intricacies of designing 3D models, the functionality of different types of 3D printers, and their practical applications. A total of 31 students registered for the workshop.

The **Augmentum 1.0** workshop, organized by IEEE PES MBCET, took place on June 24, 2023. The workshop aimed to provide participants with an immersive experience in the world of Augmented Reality (AR) and explore its vast potential. The workshop successfully equipped participants with valuable knowledge, practical skills, and a deeper understanding of AR's potential applications.

**Cybermingle**, an online awareness session on the importance of Cyber Security in today's world was conducted by the IEEE WIE AG MBCET on 1<sup>st</sup> July, 2023. The speaker of the session was Jyothi Ramaswamy. The topic was 'Importance of Cyber Security in today's world'. There were 156 participants in total.

Two **Membership drives** were conducted by the IEEE Computer Society Student Branch at MBCET in collaboration with the IEEE CS Kerala Chapter and IEEE SPS on July 2nd and July 14th respectively. The Membership Drive served as an excellent platform for students to understand the value of IEEE membership and how it can enhance their professional development.

The event, "**CRACKING CAT, An Online Session for MBA Aspirants**," was conducted by IEEE PES. The event was held on 27th October 2023, and aimed to provide MBA aspirants with valuable insights and motivation to master the Common Admission Test (CAT). Shri. Allen Thomas Kannattu took the stage to provide comprehensive insights into the intricacies of the CAT examination.

The **IEEE Day** celebration at MBCET featured a captivating Power and Energy Systems (PES) **quiz** exclusively tailored for first-year students. The quiz, held on October 3 at 12:45 PM, aimed to assess and expand the knowledge of participants on various facets of power and energy. The winners of this competition were: V Sridhar, Goutham C S & Aadhikesh S.

**Pas de Code**, a 6-day internship program on machine learning and deep learning, unfolded at MBCET with the enthusiastic participation of second and third-year students. It was hosted by

IEEE SPS MBCET, the event aimed to provide a unique learning experience by simulating machine learning and deep learning models. The Pas de Code program was conducted from 9th October to 14th October. Ms. Manju S, Vice Principal at NISH and Assistant Professor in the Department of Audiology and Speech-Language Pathology graced the final day as the guest lecturer. enhancing understanding of machine learning applications.

On November 10th, 2023, MBCET, came alive with a captivating talk session organized by IEEE MBCET EMBS SB, in association with eNiX, and the Biomedical Research Group of ECED, MBCET. Dr. Kamallesh K Gulia, Scientist & In-charge of the Division of Sleep Research at the Biomedical Technology Wing, SCT Institute for Medical Sciences & Technology, led the session, delving into the intricate relationship between **Sleep and Technology**. With a total of 56 participants, the event aimed to provide valuable insights into the advancements in sleep research and the technological interventions associated with it.

IEEE RAS MBCET in collaboration with IEEE CS MBCET, the **Byte Blitz** workshop unfolded on the 22nd of November 2023. This distinguished event attracted **129** participants. The workshop was orchestrated by **Mr. Shravan D A**, a distinguished Web Development Enthusiast, meticulously delved into four pivotal themes: Career Impact, Strategies, Language Choices & Placement Test Mastery.

IEEE PES SBC MBCET in collaboration with Illumina - Department of Electrical and Electronics conducted an expert talk on the topic, "**Renewable Energy Integration to Electric Grid with Battery Energy Storage.**" The event was led by Dr. Sukumar Kamalasan, Professor and Distinguished Scholar, Department of Electrical and Computer Engineering, The University of North Carolina at Charlotte. The session was conducted on 13th December 2023. A total of 78 members were there to attend the session.

**Shrieeek**, the flagship event organized for first-year students was conducted on 15th December 2023. The event started with an ice-breaking session for the first-year students. An interactive talk session was delivered by one of MBCET alumni, Mr. Sanju Mathew, about his experience in IEEE. A small ideation round and elevator pitching along with different fun games were conducted for students to interact with each other. The event was successful in bringing a total of 121 freshers.

In total, IEEE SB MBCET conducted 28 events in the year 2023-2024.