


**PRINCIPAL'S
MESSAGE**

Raman Effect is a unique scientific discovery which could lead to innumerable inventions and studies in



science across the world and are still progressing. Raman effect takes place when light enters in a molecule and interacts with the electron density of the Chemical bond causing Electromagnetic field in the molecule leading to vibrational and deformation of frequency shift. The incident photon excites the electron into a virtual state. The spontaneous Raman effect takes place when the molecules are excited from the ground state to a virtual state and relax into a vibrational excited state forming Stokes Raman scattering. If the molecules are already in the excited vibration state, the phenomenon is known as anti-Stokes Raman scattering. In nanotechnology, Raman spectroscopy is used to better understand the composition of the structures, crystallographic orientation of the sample and the change in vibrational frequency for chemical bond. In general, infrared spectroscopy and Raman spectroscopy are complementary techniques but the selection rule is different. In the modern era of nano science and technology, the spectroscopy based on Raman scattering is finding extensive applications (<https://www.sciencedirect.com/topics/engineering/raman-effect>) National Science Day is celebrated in India on February 28 every year to mark the discovery of the Raman effect by Nobel Laureate **Sir C. V. Raman** on 28 February 1928. Let us pay our rich tributes to this proud son of our mother land.

Dr. Abraham T Mathew

**MBCET SHINES AT GTECH MULEARN
ANNUAL EVENT - PERMUTE'24**

In the pursuit of academic excellence, MBCET triumphed at the Permute event held at Park Center, Technopark, on 23 February 2024.

The Top Performing Campus Award 2023 was proudly received by **Rev. Fr. John Varghese Palanilkunnathil**, the Bursar, **Dr. Abraham T. Mathew**, Principal and the learning team led by **Mr. Arun J. S.**, Asst. Professor, ECED and Nodal Officer of Catalyst Mar Baselios IEDC.

MBCET's prowess was further underscored by claiming **The Prestigious MuButton for achieving 1 Million Karma Points** which is a significant milestone.

Mr. Arun J. S. earned the esteemed Top 5 Karma Enabler Award (Rank 3) for scoring 20k Karma points and for his innovative leadership.

The Competitive Coding wizards of Team Codeify, which includes **Mr. Arun J. S.** (Asst. Professor, ECED), **Aditya S.** (S6 EC2, MuLearn MBCET Campus Lead), **Amrithesh S.** S6 EC2, **Prajwal P.P** S6 CS2, and **Ameer Ansary** S6 EC2, secured the Top Learning Circle Award of 2023.

Adding to the accolades, **Ms. Dhanya L. K.**, Asst. Professor, CSED, received the Exam Preparation Series Appreciation Award for her noteworthy contributions.

The Permute event brought together the MuLearn community, creating an atmosphere for a future marked by innovation and educational excellence.


INTERACTION WITH OUTSIDE WORLD

Dr. Soumya A. V., Asst. Professor, Dept. of EEE and **Sandra S. R.**, S6 EEE, Chair, IEEE EMBS attended OPEN DAY at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum on 23 February 2024. The event was dedicated mainly to Students, researchers, faculty, health practitioners, the medical device industry, and the general public



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.



MBCTIANS WON YOUNG INNOVATOR'S AWARD 2024



Congratulations



Team MBCET (Dept. of Civil Engineering), guided by **Ms. Radhika P.** Asst. Prof. , secured First place at the All Kerala Project Expo 2024 conducted by the APJ Abdul Kalam Technological University for the project: "Valorization of Plastic Wastes using Thermo-Catalytic Plastic Pyrolysis". The Project also bagged the "Young Innovators Award" at the Young Innovators Technical Summit 2024, held at Govt. Polytechnic College, Kalamassery. Award was presented on 24 February 2024.

FDP ON "DIGITAL FORENSICS"



The Department of Computer Science and Engineering in association with CSI SB, Mar Baselios College of Engineering and Technology organized an Industry supported FDP on "Digital Forensics" in hybrid mode from 19 to 23 February 2024. FDP commenced with a formal address by the Assistant HOD **Dr. Anne Dickson**. The five day Programme included sessions on Advanced topics on Digital forensics. The resource persons were: **Ms. Achu Marium John** (Analyst- Information Security, UST, Thiruvananthapuram), **Ms. Diya S.** (Scientist- F, CDAC, Thiruvananthapuram), **Dr. Dittin Andrews** (Scientist- E, CDAC, Thiruvananthapuram), **Dr. Ranju S. Kartha** (Associate Professor, Dept of IT, Rajagiri School of Engineering and Technology), **Mr. Jayaram P.** (Scientist- E, CDAC, Thiruvananthapuram), **Mr. Hiron Bose** (Scientist- E, CDAC, Thiruvananthapuram) , **Dr. Sibi Chakkaravarthy S.** (Associate Professor, School of CSE, VIT Andra Pradesh), **Mr. Adonis Thokalath Sunny** (Senior Associate, E&Y, Thiruvananthapuram), **Mr. Shijin C.** (Project Engineer, CDAC, Thiruvananthapuram), **Mr. Midhun Mohan M. G.** (Supervising Associate, E&Y, Thiruvananthapuram), **Mr. Binny Jacob Kuriakose** (Assistant Director, E&Y, Thiruvananthapuram). **Dr. Abraham T. Mathew**, Principal, MBCET was the Chief Guest for the Valedictory function. There were 56 registrations for the event. **Ms. Prathibha S. Nair** and **Ms. Vijitha Robinson**, Assistant Professors, CSE were the Faculty Coordinators.

PANELIST AT "CII IWN CONCLAVE ON WOMEN LEADERSHIP"



Dr Nidhi M. B. , Fellow IIIIE, Professor, MED, MBCT was one of the panelists in the CII (Confederation on Indian Industry) conclave on Women Leadership. **Ms Radhika Ramachandran** Rtd Scientist ISRO , **Ms Sarada Jayakrishnan**, General Manager (Quality) , Terumo Penpol (Pvt) Ltd and **Ms Roopa George**, Executive Director, OEN India Ltd were the other Panelists. **Dr.Saji Gopinath** the V.C. of Kerala Digital University, and the Acting V.C. of KTU was the Moderator.

MSME CONCLAVE



MSME Conclave "Future ready MSMEs for India @ 100" at Trivandrum. **Mr. Vipinkumar K. C.** (COO- CR), **Dr. Premchand** (MED) and **Ms. Merlin George** (CSED) , along with **Jyothish Ram J. N.** S8 EC1 , **Aswin P. N.** S8 EC1 , **Akshay Prasad** S8 EC1 , **Karthikeyan N.** S8 EC1 , **Silpa C.** from MBCET Start Up zyra.in represented MBCET in the Conclave. The objective of the conclave was to promote and support the growth of MSME sector by creating a platform for networking, collaboration and knowledge sharing, among entrepreneurs, academicians, Industry Experts, and Government officials.

MICROSOFT AZURE DATA FUNDAMENTALS SESSION BY EY GDS

The Department of Computer Science and Engineering, in association with the Training and Placement Unit, hosted a session on Microsoft Azure



Data Fundamentals on 27 February 2024 at Shannon Hall. The session was led by Data Engineers, **Mr. Vishnu Govind**, and **Mr. Anish Menon** from Ernst & Young Global Delivery Services. Student Coordinators: **Ferwin Lopez**, **Sreeparthip V.** , **Diya Sundeep**, **Riyanna Maria Abison**, Faculty Coordinators: **Dr. Anne Dickson**, **Ms. Merlin George**.



PAPER PUBLICATION

Ms. Jisa Jose, Faculty of Civil Engineering Department, published a paper on “**Optimizing chlorella vulgaris cultivation in an airlift photobioreactor using coconut oil mill effluent (COME) for biodiesel production**” co-authored by **Mr. Thomas J. Kallapurackel**, **Dr. Shibin S. P.** and **Dr. Vishnu Manirethnam** in the Journal of the Indian Chemical Society, February 2024.

FACULTY INCLUSION

Mr. Midhun G. joined as Assistant Professor in Dept. of EEE on 26 February 2023.



SELECTED TO UNIVERSITY NETBALL TEAM

Bhadra S. S. S6 ME, **Diya Vijayan V. D.** of S4 EC and **Aromal R. Chandran** S2 EL got selected to the University Netball team.



FDP ATTENDED

- Dr. Alice Thomas**, Asst. Prof. CE attended a 5 day FDP on “Disaster Risk reduction under changing climate” from 1 to 6 February 2024 conducted by TKM College of Engg., Kollam. She attended a 5 day online FDP on “Research Trends in AI Innovation & Solutions on contemporary challenges” organized by Saveetha Engineering College, Chennai from 22 to 27 January 2024
- Dr. Shalu George K.**, **Ms. Surasmi N. L.** and **Ms. Revathy K. P.** attended a 5 days online FDP on “Research and Publication Awareness” from 19 to 23 February 2024 organized by the Department of Artificial Intelligence and Machine Learning, Mahaguru Institute of Technology, Kayamkulam, Alappuzha.

THIRD IN NETBALL CHAMPIONSHIP

MBCET Women NETBALL Team secured third position in the All Kerala Inter Zone Netball Championship held on 23 February 2024.



FDP : “DIGITAL NEXUS”

The Department of Electronics and Communication Engineering collaboration with M/s Quest Global conducted a three day Faculty Development Programme



“**Digital Nexus: Unveiling the IoT Foundations**” from 21 to 23 February 2024 under CSR initiative. Faculty Coordinators : **Dr. Swapna P. S.**, Associate Professor and **Mr. Jijo Jose**, Assistant Professor, Dept. of ECE.

PLACEMENT : CE DEPARTMENT

The following students got placement offers from Aham Builders ,Trivandrum 1) **Adithya Devan A.** S8 CE, 2) **Alok R. Soorya** S8 CE, 3) **Muhammed Dhanish J.** S8 CE, 4) **Naveen K. Joe** S8 CE, 5) **Sabarinath O. R.** S8 CE, 6) **Snehal Babu** S8 CE, 7) **Thejas Krishnan S.** S8 CE, 8) **Karthik R.** S8 CE got placed as Graduate Engg. Trainee at Gulf –Asia Engg. and Projects, GCC.

UPCOMING EVENTS
ICFOSS TECHVENTURE

ICFOSS is conducting Training & Hackathon programs on Open IoT, Open Drone, and Cyber Security during March 2024. The objective of “**FOSS TechVenture**” is to inspire students to innovate, cultivate an entrepreneurial mindset. The selected participants from the program will have the opportunity to attend specialized training sessions in

Empowering Minds. Expanding Horizons: Harnessing the Power of FOSS

6th March
From 9:00 AM

PHASE I: AWARENESS SESSIONS (HALF DAY WORKSHOP) - 150 PARTICIPANTS
PHASE II: TRAINING SESSIONS (TWO DAY WORKSHOP) - 30 PARTICIPANTS
PHASE III: HACKATHON (TWO DAY WORKSHOP) - 45 PARTICIPANTS

REGISTRATION FEES : ₹ 100

VENUE: MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY

Faculty Coordinator: Mrs. Dhanya L K : 8921756854
Student Coordinator: Amritha Manoj : 9946820771

in their chosen domains. Interested and eligible contestants who are attending the training program, will also have the opportunity to receive one year complimentary incubation support from ICFOSS. Last date for registration : 1st March 5:00 PM.

Eligible students : EC, EEE, EL, CS, CT (S4, S6)
Interested participants may apply here:
<https://forms.gle/E2piscunrKhRxTHR8>

SURVEY CAMP



A 3 day survey camp was organized for S6 Civil Engineering Students to obtain hands-on experience in the use of the Total Station Instrument, used for Land Surveying. The survey was done in various locations inside the Mar Ivanios Vidyanagar. Faculty Advisors coordinated the Camp. Faculties and Technical Staff of the Department monitored student performance.

Managing Editor: Rv. Fr. John Varghese Palaniikkunnathil, Bursar
Email: bursar@mbcet.org

Chief Editor: Dr. Abraham T. Mathew, Principal
Email: principal@mbcet.org

Editor: Dr. George Zacharia, Dean (Student Affairs)

Design & Layout: Abey E Mathews (ITMS)

Published by Mar Baselios College of Engineering and Technology, Mar Ivanios Vidyanagar, Nalanchira, TVM-695015