



## PRINCIPAL'S MESSAGE

Innovation in education is about more than new technology. It's about solving a real problem in a fresh, simple way to promote equity and improve learning (<https://www.unicef.org/>) As in the previous years, our College is proud to announce the realization of many projects in this year also. The working prototype plant for extracting diesel from waste plastic, the smart farming system, a robot to assist visitors by providing video assisted navigation, LoRaWAN based water audit system, liquid propulsion-based thrusters, solutions for smart city projects, etc. are some of the outcomes of the pursuits of our students this year. These projects display our new approaches in enabling deeper and experiential learning for the students. It is seen that the involvement of the student in the basic skill development activities from the beginning of the Degree Programme empowers him/her to apply the skill in a new situation and essentially that becomes transferrable to the professional life. This is the very purpose of Engineering Education. We are happy that we could create a momentum in that direction. Parents are to be excited to see the performance of their wards and they must encourage the students to get immersed in project based learning.

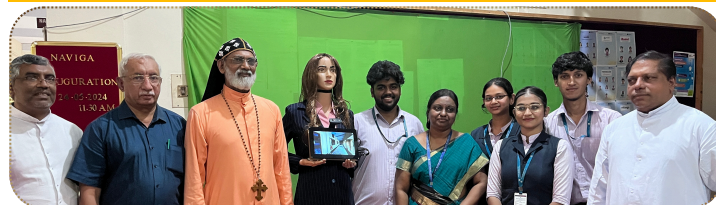
**Dr. Abraham T. Mathew**

## PROJECT PRESENTATION AT KSEB LTD.

The project 'Smart Demand Response for Consumers' by **Archit S Thampi, Muhammad Faris, Nevin Thomas John, and Sravan A. R.** was presented to Kerala State Electricity Board (KSEB) Ltd officials, who praised its innovative approach to optimizing energy consumption. **Mr. Ayush Vijayan** and **Ms. Neetha Chandran**, Asst. Professors guided the project. **Dr. Nisha G. K.**, Professor, EED, also attended the session representing the Department and supporting this commendable effort.



## NAVIGA ROBOT INAUGURATED



NAVIGA, the Navigation Assistance Robot for MBCET, a Project by the final year students of EC Dept. was inaugurated by His Excellency **Most Rev. Dr. Mathews Mar Polycarpus**, the Auxiliary Bishop of the Major Archieparchy of Trivandrum on 24 May 2024. **Dr. Abraham T. Mathew**, Principal gave the welcome address. **Fr. John Varghese**, Director proposed the vote of thanks. **Dr. Jayakumari J.** HoD, EC Dept. and Project Guide explained the technical details. The Robot was developed by **Abhay P., N. Nihal, P. H. Ganga** and **Devika R.**, S8 ECE. **Dr. Jayakumari J.** Prof. HoD ECE, **Mr. Jijo Jose** Asst. Prof. in ECE were the guides of the Project.

## EXPERT LECTURES



- An expert talk on "Impact of Geological factors in Civil Engineering constructions" was conducted by the Department of Civil Engineering, on 17 May 2024 for the fourth-semester B.Tech students. **Dr. Thara K. G.**, Former Head of Disaster Management Center, Govt. of Kerala, was the guest speaker for the event. Co-ordinators: **Ms. Radhika P.** and **Ms. Rintu Johnson.**
- An expert talk on "Bridge Design" was conducted by the Department of Civil Engineering, on 10 and 13 May 2024 for the M. Tech Structural Engineering students. **Er. Saju S.**, Director, Research Investigation Quality Control, Design wing, PWD, Thiruvananthapuram, was the resource person. Co-ordinator: **Dr. S. Jayasree**, Professor in charge, Government Consultancy Works, Civil Engineering Dept. MBCET.



**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.



## YANTHRA 24 - PROJECT EXPO

The annual exhibition 'YANTHRA 24' showcasing the works done by the final year ME students was conducted at the Mechanical Engg. Dept on 17 May 2024. The exhibition was formally inaugurated by **Rev. Fr. John Varghese Palanikunnathil**, Director in the presence of **Dr. S. Viswanatha Rao**, Vice Principal and **Dr. Remil George Thomas**, Head of MED. 17 projects were put as exhibits, comprising the fabrication works and simulation works. Faculty coordinators of this expo were **Dr. Vinod V.** and **Dr. Rajesh T. N.** The project titled "Monopropellant cold rocket thruster" by the group of **A. B. Gouri**, **Aiswarya Mohan D.**, **V. S. Savio** and **Vignesh K.** guided by **Dr. K Muraleedharan Nair**; 'Sustainable E-bike for urban logistics' by **Sooraj Menon**, **Sreekanth M. R.**, **Dan Mathew Philip**, **Umesh M. Chandran** and **Jovan Mathew Thomas** guided by **Dr. Arvind P.**; shared the best Project Award sponsored by MBCETAA.



## EXPERT TALK

**Dr. Nidhi M. B.**, Professor, MED delivered a webinar on 'Blue Ocean Strategy' organized by the Indian Institute of Industrial Engineering (IIIE), Trivandrum Chapter on 22 May 2024.

## BOOK CHAPTER PUBLISHED

**Ms. Teena Rajan**, AP, Dept of ECE, published a book chapter titled 'MULTI-DIMENSIONAL CHARACTERIZATION METHODS FOR CONDUCTIVE FABRIC MATERIALS: ENABLING AI-ENHANCED HEALTHCARE APPLICATIONS' in Futuristic Trends in Artificial Intelligence e-ISBN: 978-93-6252-759-2 IIP Series, Volume 3, Book 8, Part 4, Chapter 7

## FDP ATTENDED

**Dr Nisha G. K.**, Professor, EED, **Ms. Sandhya P.** and **Mr. Aswin R. B.**, Assistant Professors EED successfully completed the 5 days Faculty Development Program (FDP) on Electric Vehicles organized by the Human Resource Development Centre (HRDC) of APJ Abdul Kalam Technological University from 13 to 17 May 2024.

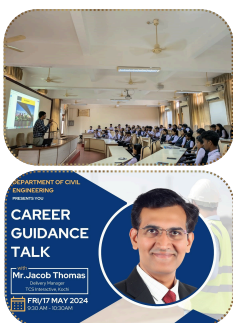
## ALUMNUS TALK



The Department of Computer Science and Engineering organised an alumnus talk on the topic 'Pursuing Higher Studies at IITs: Opportunities and Insights' in association with CSI and ACE on 15 May 2024, for second and third year students of the Department. The session was handled by **Mr. Amal Joe**, Software Engineer, Qburst. He shared his experiences and insights on pursuing higher studies at the Indian Institutes of Technology (IITs).

## CAREER GUIDANCE SESSION

A career guidance talk was given to semester 4 and semester 6 B.Tech students of the Civil Engineering Department on 17 May 2024. **Mr. Jacob Thomas**, Delivery Manager of TCS was the guest speaker. The talk was coordinated by **Ms. Radhika P.** and **Dr. Alice Thomas**. Asst. Professors in CE.



## BASKETBALL TEAM WON RUNNER-UP POSITION



**Rohan P. C.** S2 ME2, **Ashish E.** S2 CT, **Aromal R. Chandran** S2 EL participated in the 'HOOPS SUMMER FEST 24' 3 on 3 Basketball Tournament conducted by Trivandrum Basketball Association and secured Runner Up position. The tournament was held from 18 to 19 May 2024 at Chandrasekharan Nair Stadium, Trivandrum.



## WEBINAR ON THEORY OF JET PROPULSION BY ISTE FACULTY CHAPTER

The ISTE Faculty Chapter of Mar Baselios College of Engineering and Technology (MBCET) and Universiti Teknologi MARA (UiTM), Malaysia organized a webinar on the "Theory of Jet Propulsion," on 23 May 2024. The webinar covered topics on Thrust Equation, Propulsive Efficiency, Ideal Cycle, Power Output, and Thermal Efficiency, as a part of an activity under the existing Memorandum of Understanding (MoU) between MBCET and UiTM. The distinguished speaker for the webinar was Dr. Rupesh S., Assistant Professor in the Department of Mechanical Engineering at PES College of Engineering, Mandya, Karnataka. The MoU Managers who have been crucial in fostering this collaboration are Dr. David N. V., Associate Professor from UiTM, Malaysia and **Dr. Nidhi M. B.** from MBCET, Trivandrum. The webinar was jointly organised by Dr. Ahmad Hussein Abdul Hamid, Senior Lecturer from UiTM, along with **Ms. Asha S.**, Associate Professor, Dept of CSE and **Ms. Jean Molly Simon**, Assistant Professor, Dept of CE, being Faculty Coordinators of ISTE MBCET Chapter.

is an activity under the existing MoU between MBCET and UiTM in partnership with ISTE

ISTE MBCET FACULTY CHAPTER PRESENTS

### WEBINAR ON THEORY OF JET PROPULSION

Thrust Equation - Propulsive Efficiency - Ideal Cycle  
Power Output - Thermal Efficiency

23 MAY 2024  
10:30 am (MST)  
08:00 am (IST)

Speaker : **Dr. Rupesh S**  
Asst. Prof, PES College of Engineering,  
Mandya

Google Meet Link  
<http://meet.google.com/bxhtaj-uzm>

MBCET-UiTM MoU Managers: Prof. Dr. Nidhi MB, MBCET, Kerala, India; Assoc. Prof. Dr. David NV, UiTM, Malaysia

Coordinators : Ts. Dr. Ahmad Hussein Abdul Hamid, Senior Lecturer / UiTM; Ms. Asha S, Assoc Prof/CSE; Ms. Jean Molly Simon, Asst Prof/CE

## 'NAVIGA'- AUTONOMOUS NAVIGATION ASSISTANCE ROBOT FOR COLLEGE CAMPUS EXPLORATION

A team of students have developed a computer vision based smart Receptionist Robot to assist the visitors, who arrive at the Reception. This intelligent Robot can render video based assistance to the visitors for navigation within the College campus, augmented with audio instructions. The Robot is named as "NAVIGA".

Summary: The robot, equipped with a Jetson Nano microprocessor leverages on the technologies of facial recognition, cloud computing, and personalized video guidance to enhance the user experience and streamline the navigation within the given geographical area. Team: This project is developed by **Abhay P.**, **N. Nihal**, **P. H. Ganga** and **Devika R.** of S8 EC2 (2020-2024 B.Tech ECE batch) under the guidance of **Dr. Jayakumari J.**, Prof. & Head/ECE and **Mr. Jijo Jose**, Asst. Professor/ ECE. Technical support was given by **Mr. S. M. Ajith Kumar**, Sr Lab Instructor, **Mr Norbert A. Varghese**, Lab Instructor, and **Mr. Chandramohan B.**, Lab Assistant, Department of ECE & IEDC.

We are proud to dedicate NAVIGA for testing and evaluation.





## PLACEMENT



**MAR BASELIOS**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
AUTONOMOUS



**Training &  
Placement Unit**

Mar Baselios College Of Engineering and Technology

Total offers as on 24-05-2024 : 284

**experion**  
technologies

Number of students placed: 3



**Jins K Varghese**  
CSE



**Litto K Lal**  
CSE



**Shibu Shibu**  
CSE



**FEDERAL BANK**

Number of students placed: 13



**Adithya Devan A**  
CE



**Akash Chandra**  
ME



**Ashwin Mathew**  
ME



**Athena S**  
CE



**C Rachana**  
CSE



**Emy Pio**  
CSE



**Gowri Nandana T**  
ECE



**Jayakrishnan S**  
ME



**Navneeth Nair**  
CSE



**Neha A Thomas**  
ECE



**Noel Varughese**  
CSE



**Safna S**  
ECE



**Sruthi N A**  
ECE

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