MBCET e-bulletin

MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY
— A U T O N O M O U S —

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Principal's Message

The success in the recent experiment by the India Space Research Organization(IS-RO) namely Test Vehicle Abort Mission (TV-D1) is highly captivating for every Indian. The Scientists of ISRO have started the study of re-entry vehicles quite some time back. Shortly before re-entry, at about 120 km altitude, the spacecraft has speed of typically 28 000 km/h (https://www.esa.int/). There is a requirement of a particular attitude and velocity to be maintained to facilitate the re-entry. From an altitude of 110 km, during the last 10 minutes before an object reaches the ground, the atmosphere is dense enough that the object heats up owing to air resistance, and it decelerates, leading in the majority of cases to its complete destruction. The air friction causes the object to heat up to extreme high temperatures of thousands of degrees Celsius. Without a heat shield, 99% of a satellite gets burnt up. So, if a Space module reaches the ground safely it definitely manifests the superiority in the construction and also the success of the control that causes the safe re-entry and the safe landing. Skylab (74 tonnes, re-entry July 1979) and Salyut-7/Kosmos-1686 (40 tonnes, re-entry in February 1991) are well-known examples of large-mass uncontrolled re-entries. But the repeated re-entries of the Space Shuttle is a good example. India is also a member of the comity of nations who are successful in the Space Missions. Let us be proud of our Scientists and also let us convey our great appreciation to the ISRO and all who worked behind the Indian Space missions.

Dr. Abraham T Mathew

Internship Programme

IEEE Signal Processing Society (SPS) SBC MBCET in association with Signal Processing Research group, Dept. of ECE organized 'Pas de Code version 2 - a 6-day Internship Programme on Simulation of Machine Learning and Deep Learning models using MATLAB and Orange' from 9 to 14 October 2023. It was a 30 hours programme organized for second and third year B.Tech students of MBCET. **Ms. Manju S**, Vice Principal, NISH, **Dr. Lani Rachel Mathew** and **Ms. Deepa P L**, Asst. Professors, Dept. of ECE, MBCET were the Resource Persons. **Mr. Sreekumar M G** and **Ms. Deepa P L** coordinated the programme. **Akhil Paulton Adem** (S7 EC2), Chair, IEEE SPS, MBCET was the student coordinator.

Winner, District Yogasana Championship

Kiran Biju, S3 CS1 participated in the Senior District Yogasana Championship conducted by Yogasana Association, Thiruvananthapuram held at Navajeevan Bethany Vidyalaya and bagged the First position. He also represented Trivandrum District in the State Competition on 14 and 15 October 2023 in Kozhikode.

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.*

Intel Unnati Tool Kit Training

A 5-day Intel Unnati Tool Kit Training [Part-1] was conducted from 17 to 21 October, 2023 at the Intel Unnati Data-Centric Lab. The sessions were handled and coordinated by **Dr. Swapna P S**, Asso. Prof., Dept. of ECE and **Mr. Jijo Jose**, Asst. Prof., Dept. of ECE. There were 18 participants from M1, S3 and S5 of various Departments.

Visit to KSEB

A group of students along with **Mr. Ayush Vijayan** and **Ms. Neetha Chandran**, Asst. Professors, MBCET visited KSEB on 16 October 2023 as part of the final year project to discuss the load arrangement in Thiruvananthapuram district. They also visited the SCADA Control unit and had interaction with the officials of KSEB.

Faculty Contributions

Dr. Nidhi M. B., Asso. Prof. MED, delivered a webinar on 'Project Management' on 8 October 2023 at Govt Polytechnic College Chelakkara. She has been inducted as CII Mentor for Women Leadership Program from October 2023 onwards.

GATE 2024 Orientation Session

An orientation session targeting GATE 2024 Exam was organized for S7 Civil Engineering students by the Department, in association with Civilianz, on 17 October 2023. 30 students attended the Talk.

Webinar Attended

Ms. Neetha Chandran, Asst. Prof., EED, participated in a Webinar on 'Smart Metering Technologies' organised by Tata Power Delhi Distribution Limited, New Delhi on 29 September 2023.

Online Certification Programme

The Department of EEE, in association with CDAC is organizing 'Circuitrix', a 30 hrs Online Certification Programme on Simulation of Power Electronic Circuits from Basics to Applications in MATLAB/Simulink. The first session of this programme was conducted online on 16 October 2023. The Resource Person was **Dr. Dishore S V**, Asst. Prof., EED.

Vigilance Awareness Week
30 Oct - 05 Nov 2023
" Say no to Corruption: Commit to the Nation"

Evaluator

Dr. Alice Thomas of Civil Engineering Department was an evaluator of the Young Innovation Programme projects in the Water Conservation Category, conducted by KDISC and Kerala Startup Mission conducted on 14 October 2023.

IET Young Professional Meet

The IET Young Professional Meet conducted on 14 October 2023 at St. Xavier's College, Nagercoil, brought together IET On-Campus Chapter students, IET officials, and peers from other Institutions. They got engaged in insightful discussions about the future plans and initiatives of IET at the regional and global levels.

FDP Attended

1. **Dr. Neethu Roy** has participated in the Short Term Training Programme on 'Tools for Transportation Data Analysis & Modelling' organised online by the Centre for Transportation Research, Department of Civil Engineering, National Institute of Technology, Calicut from 9 to 14 October 2023.

2. **Dr.Jayasree S**, **Dr. Archana J Satheesh**, **Ms. Ansu Mathew**, **Ms. Bindu Biju** & **Ms. Rakhi J H** have attended a Short Term Training Programme on Advanced Seismic Analysis and Design of Structures organised by the Department of Civil Engineering, College of Engineering, Trivandrum from 9 to 13 October 2023.

NPTEL Course Completion

The Faculty Members of CED **Mr. Divyaprasad S P, Ms. Indhu Luke**, Ms. **Diana Alice Sugunan** and **Dr. Alice Thomas** have completed an 8 weeks NPTEL Course on Subsurface Exploration: Importance and Techniques involved. **Mr. Divyaprasad S P** was one of the toppers of this Course.

IET IGNIET 2023

IGNIET 2023, the flagship event of IET On-Campus Chapter was conducted on 14 October 2023 at Olympia. The distinguished former Chairpersons of IET OnCampus graced the event, sharing their knowledge and experiences with the First-Year students.

UHV Cell

A 2-Day workshop on 'Universal Human Values' was conducted for the Second and Third year students on 16-17 October 2023 at the College. Resource Persons: **Dr. S. Ushakumari,** Dean, Corporate Relations and **Dr. Elizabeth C. Kuruvilla,** Professor, CED. Coordinator: **Dr. Veena Nair**, Asst. Prof. S & H.

Hands-On Workshop on PYTHON Programming by UST

The Department of CSE, in association with M/s UST, Technopark organized a five days' hands-on workshop on Python programming from 9 to 13 October 2023. 50 students of Third Semester from the Departments of CS, AI, EL and ME participated. **Mr. Sthanu Kumar Ramakrishnan Thambi** (UST, IN) kicked off the workshop. **Mr. Thomas George Koshy (**UST, IN**)**, an expert in database management, introduced participants to MongoDB—an open-source NoSQL database. An industrial visit was held to UST for all the 50 participants on 20 October 2023. Faculty Coordinator: **Dr. Priya Mariam Raju**, Asst. Prof., CSED.

Achievement

Dr. Archana P. Das, HoD, S & H received the Best Paper Award for oral presentation in the Two Day National Seminar on NMR Spectroscopy, jointly organized by Magnetic Resonance Society of Kerala & MA College, Kothamangalam (Autonomous) (October 20-21, 2023). Sponsored by KSCSTE.

International Online Workshop

Dr. Veena Nair participated in a 10-day international online workshop: 'AI for Academics: 75 esential Tools' organized jointly by Fatima Mata National College, Assumption College, Bharat Mata College, Rajagiri College of Management and Applied Science and Lore and Ed Research Associates (26 Sept - 9 Oct 2023).