



In Altum... The NBCEJ News Letter



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Mar Baselios College of Engineering and Technology (Autonomous)
Mar Ivanios Vidyanagar, Nalanchira, Thiruvananthapuram – 695 015.

All B Tech
Programmes
Accredited by
NBA
since 2016

College code : MBT



M.Tech Convocation 2023



Dr. Rajeev Chandrasekhar, IT & Electronics Minister
Inaugurates the Intel Unnati AI IoT Lab



Adv. Antony Raju, Hon'ble Minister for Transport inaugurates 'Environ'
the EV utility vehicle developed by S8 ME Students



Ravikiran Nair S2 Ct,
represented India for the
1st Asian Chessboxing
Championship



Bhadra S S,
S4 ME,
National Triathlon
Champion



Ms. Akshita Venkatesan,
S8 CS1 receives the ISTE
Best Student Award



Ms. Anjali Bhavana
(Alumna) won 94th Rank
Indian Forest Service
Examination 2022



Ms. Nayana Josan
(Alumna) won Asianet Best
Dancing Girl Trophy



Ms. Vishnupriya Nair, Lt.
Indian Army
(Alumna)

Message from the Bursar



Indian Society and Culture have been moulded by a sound system of education over the Ages. Ancient Universities of India like Nalanda, and Thakshashila contributed to the formation of Indian Culture. Teachers of those times were dedicated and committed to the cause of education

and formation of their students.

If we do an honest self-evaluation, are we as committed as the teachers of those times? India has eminent Universities and Centres of Learning. But are the teachers and students committed totally? It seems at least a good number of students are oblivious of the fact that student life is meant exclusively for studies, even while they are living in the Modern Age. Unfortunately, a considerable portion of the student community has lost their focus owing to the influence of drug abuse, excessive politics, misuse of social media and other distractions.

Unless we retrieve the commitment as teachers and students our future may remain uncertain. The Teachers have to transform themselves as Mentors just as in the Gurukul System in which the guru used to mould the disciple totally.

Remember that the future is in the hands of students who transform the society at large. If we fail to improve and strengthen our creativity with a solid moral ground, the future might turn grim putting the fate of society itself in peril. So let us together strive to accomplish this goal.

- Fr. John Varghese

Principal's Desk



For MBCET, the half year from 01 April to 30 September of 2023 has been a period of historical significance as the last batch of 536 students under KTU non autonomy scheme completed their coursework and exited in June/ July. Similarly, for M.Tech the tenth batch has graduated in July/August.

This is the second M.Tech batch under autonomy. The response towards the 2023 admission to the UG and PG programmes was very much encouraging and it shows the acceptability of our academic processes by the public at large. The higher enrollment bestows more responsibility on us.

Another dimension of the accelerated growth is the expansion in the networking with institutions and industries. New relationships have been established with industrial units in and around the capital city to leverage the benefit of academic autonomy through internships, training and placements. We have stepped out to build a good ecosystem for training our students to become employable. The placement process for 2024 pass out has been started.

The revision of the UG curricula to absorb the current job requirements has been started with the core values of professional excellence, innovation and inclusivity. The new UG curriculum will become effective in 2023-2024.

We hope our students reach the princely positions in their career and discharge their duties with utmost commitment.

We are grateful to all our stakeholders for their support and cooperation.

- Dr. Abraham T Mathew

Editor's Note.....



In the duo-decimal year, while celebrating the silk anniversary, 'In Altum' remains a mirror of MBCET. In its journey it added credit to the Institution winning a State Award for the Best Newsletter in the Colleges of Kerala. The College during this period got accredited and attained Autonomous College Status, and the evolutionary process continues. The world being in a state of constant flux has been witnessing so many changes. The Covid pandemic, the consequent economic recession, climate change and global warming-numberless miseries. Earthquakes, floods and hurricanes take away millions of lives. And the Third World War fought in small-scale illustrates weapon trade converting countries into open market for weapon trade. Appeals for peace and disarmament become cries in wilderness. After Chandrayaan

Science and Technology surges ahead. At the same time the concern for "disease X pandemic" is spreading across the globe. Amidst all these the humanity moves ahead. The student community has to surmount all challenges and explore the world ahead with hope as the sole weapon.

- Dr. George Zacharia

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.

Convocation 2023

The Graduation Ceremony of M.Tech Students 'Convocation 2023' was ceremoniously held on 7 October 2023 at the Olympia. **Rt. Rev. Dr. Varkey Attapurath, Cor Episcopo**, Vicar General, Major Archdiocese of Trivandrum gave the Presidential Address. **Dr. Samson Mathew**, Director, NATPAC Kerala State Council for Science, Technology and Environment, Govt. of Kerala and Former Dean, NIT Trichy gave the Convocation Address. **Dr. Abraham T Mathew**, Principal and **Dr. Paul Thomas**, Dean PG Studies & Research spoke on the occasion.



➤ INDUSTRY INSTITUTE COLLABORATION

❖ MoU with ICCONS

The Department of CSE, signed an MoU with ICCONS on 26 June 2023. This will facilitate collaborative research, teaching and learning.



❖ NON-DISCLOSURE AGREEMENT WITH CDAC

The Department of CSE, signed a non-disclosure agreement with CDAC on 21 June 2023. This is to enable data set sharing as part of the collaborative project work on AI and Machine Learning.



❖ MoU SIGNED WITH UST GLOBAL

The Department of CSE, initiated an MoU with UST on 9 May 2023. They will

be facilitating an industry-supported lab, internship opportunity for students and technical support as a part of the MoU.

○ MoU signed with MetroScans:

MBCET signed an MoU with the Metro Scans on 6 April 2023, to provide medical radiological images for

support study of graduates, post graduates and doctorate study of Biomedical Engineering students

HANDING OVER OF 3D PROTOTYPE OF THE ANAKKAMPOYIL-KALLADI-MEPPADI TUNNEL ROAD TO GOVERNMENT OF KERALA

Department of Civil Engineering prepared the 3D prototype of the Anakkampoyil-Kalladi-Meppadi Tunnel Road under the guidance of the Officials from Konkan Railway Corporation Limited. The model was handed over to the



Konkan Railway Corporation on 22 May 2023 in a function held at MBCET campus, in the presence of **Sri Linto Joseph** MLA Thiruvambady, Kozhikode, **Sri Kadakampally Surendran** MLA, Secretary Kerala PWD, Chief Engineer, Kerala PWD and other dignitaries.

Prize for Cultural Events

The MBCET Team won first prize in the Battle of Bands conducted by Sree Achyutha Menon Memorial College,

Thrissur in the event iGen -2023 and in Dhanak 23 hosted by IIST. The Team members are **Ramakrishnan Hareesh** (Drummer, S8 EC1), **Vishnusankar M** (Vocalist, S8EC2), **Ganesh.G.S** (Violinist), **Archit.S. Thampi** (Keyboardist), **Abhijeet Leslie** (Guitarist), **Rishi J R** (Guitarist).



PATENT RECEIVED

Dr. Dishore S V, Assistant Professor, EED obtained a design patent on "Modular Coconut Scrapper". The design patent, bearing the Design Number: 374689-001, has been registered under the Intellectual Property Rights (IPR) system, recognizing the uniqueness and originality of design.

COMPUTER SOCIETY OF INDIA (CSI) ACTIVITIES AGILE AND TESTING WORKSHOP - ENXCL BUSINESS SOLUTIONS

The Department CSE, in association with CSI SB organized a two-day workshop on Testing and Agile. A team led by **Mr. Santosh Udayanan**, CEO, of Enxcl Business



Solutions, conducted the workshop for third-year B.Tech CSE students and explained the various aspects of Testing and Agile Framework in Software Engineering. Faculty Co-ordinators: **Ms. Deepthi K. Moorthy**, **Ms. Gauri Shree V K.**

ASCE ACTIVITIES

Certificate of Commendation

ASCE Student Chapter has been selected by the Committee on Student Members to receive a Certificate of Commendation for its outstanding activities as recorded in the 2022 Chapter Annual Report. This is a distinction earned by only the top 5% of all student chapters.



Dr. Abraham T Mathew (Principal) handed over the 2023 Certificate of Commendation in recognition by the committee of student members as an outstanding student chapter of ASCE to **Dr. Jisha S. V.** (HOD, CE).

Expert Talk on “EXPERIENCE IN GEOTECHNICAL ENGINEERING”



An Expert Talk on “Experience in Geotechnical Engineering” was conducted by the MBCET Student Chapter of ASCE on May 11, 2023. The speaker of the event was **Dr. K. Balan** (Professor/Consultant in Geotechnical Engineering). He emphasized the value of learning from nature throughout his talk.

IEEE SBC MBCET

PES Talk Session

As a part of the IEEE PES DAY 2023 celebrations, IEEE PES SB MBCET conducted a talk session on “The Role

of Sustainable Energy for A Safer Future” The online session was conducted by **Dr. Dishore S V**, Assistant Professor, on 22 April 2023. 47 participants attended the session.

DO A DOODLE: Doodle Art Competition

“Do-A-Doodle” doodle art competition was conducted by IEEE PES SB MBCET,

The topic was “Go Green-Reduce your Impact on the Environment for Betterment”. The event was judged by **Ms. Sandhya P** and **Mr. Anil J**, Assistant Professors in EEE Department. 6 students participated in the competition.

The winners were:

- | | | |
|-----------------|-------|--------------|
| 1. Adarsh H | S4EEE | 1st position |
| 2. Steena James | S4CE | 2nd position |

Eco-Blogging: Blogging Competition

The participants were required to write blogs on the topic, “Seeing the Unseen-We Must Change Faster than Climate Change”. The event was judged by **Ms. Sandhya P** and **Mr. Anil J**, Assistant Professors in EEE Department.

The winners of this competition were:

- | | | |
|--------------|------|--------------|
| 1. Abhijith | S4EC | 1st position |
| 2. Shalu U S | S4EC | 2nd position |

Enthalpy: Membership Development Session

IEEE Travancore Hub, in collaboration with IEEE Link and IEEE Region 10 Student Activities Committee, held a one-day Membership development session, Enthalpy, on May 20, 2023 with venue support from IEEE Student Branch Chapter, MBCET.

The inauguration included a code of ethics administration by **Parvathi Priya**, Electronics & Communication coordinator, IEEE Travancore Hub, a welcome address by **Mohammed Kamarudeen**, Membership Development Coordinator, and a Presidential Address by **Dr. John George**, Vice-Chairperson, Student Activities Committee, IEEE Kerala Section. **Dr. Abraham T Mathew**, Principal, MBCET inaugurated the event.

Prof. Muhammed Kasim S., Chairperson, IEEE Kerala Section, delivered the Keynote Address, followed by felicitation addresses from **Ms. Jyothi Ramaswamy**, Membership Development Chair, and **Dr. Biju K**, Secretary, IEEE Kerala Section.

Environment Day Celebrations 2023

The Environment day celebrations were conducted by IEEE SBC MBCET in collaboration with IEEE PES SBC MBCET on the 9 June, 2023. A custard apple sapling was planted in the Chapel premises by the Chair, Secretary and Faculty advisor of PES. The Environment Day oath was taken by the participants present.

CODESPRINT: Online Bootcamp

IEEE CS MBCET organized Codesprint, a three-day bootcamp for first and second-year students, focusing on App and Web development. from 16 to 18 June The first day featured Mr. Ben George Netto, operations lead at GDSC MBCET, **Mr. Gopal S**, an app developer at GDSC MBCET, and **Ms. Liya Susan Biju**, a web developer at GDSC MBCET, IEEE CS Secretary, and Technical Officer at IEDC MBCET, addressed the participants. 18 completed the project submission.

AUGMENTUM 1.0

IEEE PES MBCET organized Augmentum 1.0 on June 24, 2023. This workshop aimed to introduce participants to the world of Augmented Reality (AR) and its possibilities.

PRINTATHON

PRINTATHON, organized by IEEE RAS MBCET, was a standout Hackathon held online during 21-22 June 2023, on 3D printing solutions. The event attracted 31 participants. PRINTATHON provided a valuable platform for students to showcase problem-solving skills and explore the potential of 3D printing technology while fostering innovation and ingenuity in solving real-world environment challenges.

The winners of the competition were: First Position Team- Agent of Kerala MBCET

PRINT POLYGON

The "PRINT POLYGON" workshop, was organized by IEEE RAS SB MBCET at MBCET on June 24, 2023. Led by **Mr. Vignesh Kailas** and **Mr. Abhishek S S**, it aimed to educate participants about 3D modeling, different 3D printers, and their applications. 23 attended in person. A highlight was the visit to the Project Lab, where students witnessed live 3D printing of their solutions, gaining practical insights. The event attracted 31 participants, including 21 non-IEEE members, reflecting its wide appeal.

MEMBERSHIP DRIVE: 2023-2024

The IEEE Computer Society Student Branch at MBCET, in partnership with the IEEE CS Kerala Chapter, organized the 2023-2024 Membership Drive on 2 July 2023. 78 participants were eager to join IEEE.

CYBERMINGLE

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 July 2023. by **Jyothi Ramaswamy**. 156 participants were provided certificates for their active participation.

ISTE REPORT

HEALTH QUIZ

ISTE MBCET Student Chapter held a quiz in celebration of World Health Day on 12 April 2023.

Through the quiz website Quizizz, the event went smoothly online. The event's quizmaster was Swetha J S.

Winners

- Nevin George (S2 CS2) - Ist place.
- Merin Thomas (S3 EEE) - IInd place.
- Rohit B. Nair (S2 CS2) - IIIrd place.

INSPIRE-Group Discussion

ISTE MBCET organized a group discussion event named "INSPIRE" on 14 April 2023 at Senatus Hall. The event was conducted by Akshita Venkatesan, an S8 CSE student, who provided valuable insights on group discussion. The session was followed by an aptitude test, group discussion, and extempore, where all the participants gave their best shot.



The event was well attended, with all participants engaging in the group discussion. After a rigorous discussion, John emerged as the winner and was awarded a cash prize of ₹ 200, while Sanjana secured the second position and received a cash prize of Rs. 100.



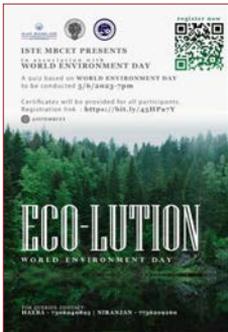
ISTech TALK #2

The ISTE MBCET Student Chapter hosted an ISTech Talk session on the subject of Nanotechnology and its applications on May 19, 2023. **Dr. Chacko Koshy** was the keynote speaker. The event held online was attended by more than 40 people. The discussion was informative. **Dr. Chacko Koshy** discussed the real-world applications of nanotechnology and how this discipline is developing and becoming more well-known.



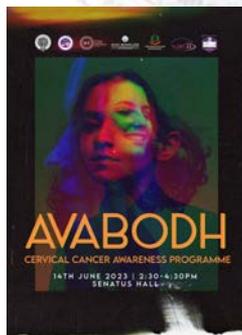
ECOLUTION

On 5 June 2023, the ISTE MBCET Student Chapter organized a quiz tournament called Eco-lution-A Quiz on World Environment Day as part of commemorating Environment Day. Coordinators: **Niranjan** (S2 CE1) and **Heaba Sara** (S2 EC1). 44 out of the 59 people who registered for the event showed up to participate. The following are the event's winners: **Ephy Eapen V George** (S6 EC2), **Kurien P Issac** (S2 EC1), **Amritha Manoj** (S2 CT). Certificates were given to all the participants.



AVBODH-Talk Session

In collaboration with the Nemom Branch of the Indian Medical Association, SHE-ISTE MBCET held a talk session on cervical cancer awareness. The event took place at Senatus Hall on 14 June 2023. **Dr. Vijayakumar** presided over the official inauguration before the discussion session, which was opened by **Dr. Abraham T. Mathew**, Principal MBCET. The keynote lecture was given by **Dr. V Mohanan Nair** and was titled "Cancer: A Growing Menace." **Ms. Christa Maria Joby** proposed the vote of thanks.



Dr. Chandini Devi's Talk focused on Cervical Cancer Awareness and Prevention Strategies. The talk session was attended by over 80 students. The faculties who

attended the event are **Mr. Melvin Jacob**, **Ms. Amritha B J** and **Ms. Shilpa Susan Peter**. **Ms. Soumya A V** was the Faculty Coordinator and **Christa Maria Joby** was the student Coordinator of the event. This was followed by a Q and A session after which the Principal handed over mementos as a token of gratitude.

Expert Talk

On June 23, 2023, the Department of CSE presented a seminar on "The Role of Computer Vision in the Transportation Industry" in collaboration with ISTE and CSI MBCET. **Ms. Anjana P. Das**, a Technical Specialist at Tata Elxsi Ltd., was the resource person. There were more than 100 attendees at the workshop. Faculty Coordinators: **Ms. Poorna B. R.** and **Ms. Anjali S.** Assistant Professors in CSE.



DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT ACTIVITIES

TRAINING PROGRAMS

Training Program on Essentials in Civil Engineering

A Training Program on "Essentials in Civil Engineering" was organized by the Department of Civil Engineering from 24 to 28 April 2023. The program included Lecture and Hands on training on concrete Mix design, handled by **Mr. U P Govind**, Faculty Civil Department MBCET. Field experience on Setting out a building plan by **Mr. Amal Sisruthan**, **Mr. Sarath Chandran** and Team, AHAM BUILDERS Trivandrum, GIS Software training by KIIFB Engineers and English language workshop and Group discussion training by **Dr. Veena Nair**, Faculty Science and Humanities, MBCET. **Ms. Anupama Krishnan** and **Dr. Minu Ann Peter** coordinated the event.



One Day Training Programme by Civil Engineering Department

Environmental Engineering Laboratory

The Department of Civil Engineering conducted a one-day Training Program on Environmental Engineering Laboratory on 21 August 2023 for the Technical Staff of the Department.



The program was organised by **Dr. Jaya S Pillai** and **Ms. Nimisha Anna Jacob**, Assistant Professors of the Civil Engineering Department.

Concrete Laboratory



The Department of Civil Engineering conducted a one-day Training Programme on Concrete Laboratory for the Technical Staff of the Department on 16 August

2023. The programme was organized and conducted by **Dr. Minu Ann Peter**, Assistant Professor, Department of Civil Engineering.

STUDENT PROJECTS

Financial Assistance for Innovative Student Project by APJAKTU

The following student projects were funded by APJAKTU for the academic year 2022-23

1. Project by students of S8 CE (**Aswin Asok, N Thanzeer, Arun Raj A, Nirmal Sabu Isaac**) "Development of Cement Treated Subbase (CTSB) Mix having Partial Replacement of Coarse Aggregates with Construction Demolition Waste for Optimum Permeability and Strength" Guided by **Dr. Neethu Roy**
2. **Arpitha R Nair, Asmidh N S, Ganga Gopan, Govind S P**, S8 CE "Mitigation Measures using Soil-bioengineering in Rainfall Induced Landslide Prone Areas" Guided by **Dr. Jisha S V**
3. **Devika Jose, Feba Ann Varughese, Navajith Sasi, Pallavi Premjith**, S8 CE "Wastewater Treatment combined with CO₂ Biofixation and Biofuel Production using Indigenous Microalgae" guided by **Dr. Jaya S Pillai**

SUSTAINABILITY HACKATHON CHALLENGE

Devika Jose, Feba Ann Varughese, Navajith Sasi, Pallavi Premjith, S8 CE guided by **Dr. Jaya S Pillai** got

an entry to the Final Round of Hackathon held at Ahmedabad during 28-29 April, 2023.

PROJECT EXPO AAKRITI '23

The Department of Civil Engineering conducted the Project expo Aakriti '23 on 22 May 2023. Many faculty Members and students from different Departments interacted with the Project Teams.



BEST PROJECT AWARDS FROM CE DEPARTMENT 2022-2023

The following Projects won Best Project Awards

1. Project titled "Waste water treatment combined with CO₂ bio-fixation and bio-fuel production using indigenous micro-algae". Group members are **Devika Jose, Feba Ann Varghese, Navajith Sasi, Pallavi Premjith**, S8 CE1, guided by **Dr. Jaya S. Pillai**
2. Project titled "Electro-coagulation process for hospital waste water treatment". Group members are **Chikku Elsa Thomas, Nandana J., Susan Teji, Vaishnav J.**, S8 CE2, guided by **Dr. Archana J. Satheesh**.

PAPER PRESENTATION

1. Students of S8CE2 **Savinaj V Santhosh, Safa Zohra S, Ardra V M, Varsha H Nayar** and **Dr. Anupama Krishna D** Assistant Professor, Department of Civil Engineering, have participated and presented a paper titled "EFFECTIVE UTILIZATION OF HERBOCRETE AND PARTIAL REPLACEMENT OF CEMENT USING EGG SHELL POWDER" in the 5th International Conference on "Recent Innovations in Science & Technology (RIST 2023)" conducted on 7 & 8 April 2023, organized by Holy Grace Academy of Engineering, Thrissur, India in association with ISET Research, India.
2. **Dr. M. Satyakumar** Professor, Department of Civil Engineering, participated and presented a paper titled "STUDY ON PEDESTRIAN VIOLATION BEHAVIOUR AT INTERSECTIONS" in the 5th International Conference on "Recent Innovations in Science & Technology (RIST 2023)" conducted on 7 & 8 April 2023, organized by Holy Grace Academy of Engineering, Thrissur, India in association with ISET Research, India.
3. **Ms. Lekshmi Chandran M, Liander George, Nauzzin D, Malavika R Nair, Shivani P S, Praveen P S, Ashik K Azad** participated and presented a paper

titled "Forced Gap Behaviour at Unsignalised Intersections: A Case Study" in the 1st Vision Zero Summit National Road Safety Conference organized by Maulana Azad National Institute of Technology (MANIT), Bhopal.

PAPER PUBLICATION

1. **Ms. Lekshmi Chandran M**, Dr. Jaya V, Dr. K. Balan published a paper titled "Laboratory Study of Vibration Isolation Performance of Needle Felt Coir Latex Composite (NFCLC) Trench Type Wave Barriers" in SSRG International Journal of Civil Engineering (scopus indexed), Volume 10, Issue 7, July 2023 ISSN 2348-8352
2. **Ms. Lekshmi Chandran M**, Dr. Jaya V, Dr. K. Balan published a paper titled "Mitigation of Train-Induced Vibrations with Developed In-Filled Coir Composite Wave Barriers" in International Journal of Scientific & Engineering Research, Volume 14, Issue 7, July-2023 ISSN 2229-5518

CONFERENCES / WEBINARS ATTENDED BY FACULTY

Ms. Jean Molly Simon and **Ms. Diana Alice Sugunan** attended an FDP on Smart and Sustainable Infrastructure conducted by the Department of Civil Engineering, Vellamal College of Engineering and Technology, Madurai from 29 May to 6 June 2023

Ms. Ansu Mathew attended an FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE from 29 May 2023 to 2 June 2023

Ms. Diana Alice Sugunan attended 2023 International Conference on Sustainable Technologies in Civil and Environmental Engineering conducted by Dr. D.Y. PATIL INSTITUTE OF TECHNOLOGY, Pune, on 15 & 16 May 2023 and a webinar on Bridge Construction in India: Practice and Challenges organized by IGS Jabalpur Chapter and Students Chapter TIET, Madhya Pradesh on 2 July 2023

4. **Dr. Jaya S Pillai** and **Ms. Akhila A.M.** participated in the Indian Environment Congress 2023 organized by the Centre for Environment and Development (CED), Thiruvananthapuram from July 11-13, 2023. The focal theme of the Environment Congress was Sustainable Waste Management- Challenges, Opportunities and Innovations.

5. **Dr. Jaya S Pillai**, **Ms. Ansu Mathew** and **Dr. Alice Thomas** attended a course on Disaster Risk Reduction and Management conducted by KSDMA and Washington

University with the Kerala programme of the US Consulate at Kerala State Disaster Management Authority Headquarters. Different approaches to Disaster Management and Sociological Perspectives were the focal theme of the event.

Dr. Minu Ann Peter, Asst. Prof, CED, attended a four-day Hands-on Training on the Fundamentals of Geographic Information System and Remote Sensing organised by the Centre for Geoinformatics, IRTC, ASCSTE, Mundur, Palakkad from 2 to 5 August 2023

Dr. Jisha S V, attended a seminar, Bridge 2023 organised by Indian Institute of Bridge Engineers and IIT Hyderabad from 23 to 24 June 2023

Dr. Neethu Roy, **Dr. Jaya S Pillai**, **Dr. Anupama Krishna D** and **Ms. Nimisha Anna Jacob** attended Awareness and Internal Auditor Training with ISO 9001:2015 from 25 to 26 of April 2023.

EXPERT VISIT AND INTERACTION WITH STRUCTURAL ENGINEERING FACULTY AND PG STUDENTS

Mr. Prabhakar Gundlapalli, Associate Director, at Nuclear Power Corporation of India Limited Mumbai, Maharashtra, India, interacted with the faculty of Structural Engineering in the Department of Civil Engineering along with M.Tech students. He gave a presentation on the construction of the nuclear power plants and motivated the participants to learn the sophisticated designs.

FACULTY INTERACTION WITH OUTSIDE WORLD

Dr. M Satyakumar received Certificate of appreciation in recognition of his contribution as Reviewer and Session Chair in SECON'23 held during June 07-09, 2023, organized by the Department of Civil Engineering, Federal Institute of Science And Technology (FISAT), Ernakulam, Kerala, India.

CONSULTANCY WORKS

1. Preliminary site investigation was conducted at **Pathanamthitta** on 29 April and 5 May 2023 for soil investigation as part for Sewerage Treatment plant construction for **Kerala Water Authority**



2. Soil investigation work was done for minor bridge construction at Kottarakkara for PWD Kerala and sewerage Treatment Plant construction at Karunagappally, Pathanamthitta, and Nedumangad.

TRAINING PROGRAM ORGANIZED BY KONKAN RAILWAY

20 students of the Civil Engineering Department attended a 5 days training program organized by the corporate Office of Konkan Railway, at the Konkan Railway Academy, Madgaon, Goa during 7-11 August 2023. The training included sessions about Construction of Railway Formation & track components, Railway Tunnels - Construction aspects, Career counseling for employment in railways and other Govt organizations, Discussion about various Construction Projects undertaken by KRCL, Site visits etc. The sessions were handled by Senior Engineers and trainers of KRA and various external experts. **Dr. S. Jayasree**, Prof. CE Dept. accompanied the students. This was a special session conducted by KRCL for MBCET.



VISIT TO L&T Ltd.

As part of the L&T Edu-Tech initiative, the organization handpicked the top 30 students, consisting of both Civil and Mechanical Engineering disciplines, to participate in an enriching immersion program hosted at the esteemed L&T office. A visit to the Cochin Dry Dock construction site was held on 15 July 2023.



SURVEY CAMP

A 3-day survey camp was organized for S6 Civil Engineering students in the campus. Students obtained hands-on experience in the use of the Total Station Instrument, used for Land Surveying. Staff Advisors of the batches coordinated the event. Faculty Members and Technical Staff monitored student performance.



ALUMNI ACHIEVEMENT

Ms. Vishnupriya Nair 2018-2022 B. Tech Civil Engineering Batch was commissioned as Lieutenant in Indian Army (Short Service Commission Women Technical Entry Civil Engineering)

EXPERT TALKS

Invited Lecture on "Fundamental rights"

A Talk on "Fundamental Rights" was arranged by the Department of Civil Engineering on 5 May. **Adv. Shijoy John Mathew**, Lawyer High Court Kerala, was the speaker for the session. The session



was coordinated by **Ms. Akhila A M** and **Ms. Rintu Johnson**, Asst. Professors, CED.

Webinar on Rudiments of Climate Science

Environmental and Water Resources Research Group of Department of Civil Engineering organised a webinar on 'Rudiments of Climate Science' on 16 May at Laurie Baker Hall. The speaker was **Dr. Jayasankar Pillai**, Research Fellow Northumbria University London. The



event was coordinated by **Dr. Amal Raj and Dr. Alice Thomas**

Expert Talks

1) Talk on "Aspects of Ground Water Pollution and Saline Water Intrusion" for the course "Engineering Geology" at the Department of Civil Engineering on June 2, 2023. The talk was delivered by **Mr. E. V. Manoj**, Retd. Associate Professor, University College Trivandrum, for the fourth Semester students of the Department. The co-ordinators were **Ms. Diana Alice Sugunan** and **Ms. Radhika P**, Assistant Professors, CED.



2) Talk on 'IPR and its Commercial Relevance' for the course 'Professional Ethics' at the Department of Civil Engineering on 9 June 2023. The talk was delivered by **Mr. R S Praveen Raj**, Principal Scientist, CSIR-NIIST, Thiruvananthapuram for S4 students. The Co-ordinators were **Dr. Minu Ann Peter** and **Mr. Divyaprasad S P**, Assistant Professors, CED.

3) Talk on held on 'ISO 14001 Standards' for the course 'Environmental Impact Assessment' at the Department of Civil Engineering in association with Environmental and Water Resources Engineering Research group and ASCE Student Chapter MBCET on June 23 2023. The talk was delivered by **Mr. Venugopal S**, General Manager, HLL Lifecare Ltd, Thiruvananthapuram for S6 students. The Co-ordinator was **Mr. Divyaprasad S P**, Assistant Professor, CED.



4) An expert talk on 'Irrigation Structures - An Overview' for the course Design of Hydraulic Structures was held at the Department of Civil Engineering on 23 June 2023. The talk was delivered by **Er. K. H. Shamsudeen**, Retd. Chief Engineer, Kerala Irrigation Department to the students of S6. The Co-ordinators of the talk



were **Ms. Jean Molly Simon** and **Ms. Sangeetha Sajeev**, Assistant Professors, CED with the guidance of **Dr. Elizabeth C. Kuruvilla**, Professor, CED.

5) An expert lecture on "Geotechnical Principles and Practical Applications" was conducted for S4 students in CE Dept. Seminar Hall on 4 July, 2023. Speaker for the session was **Dr. Jayamohan. J**, Principal, LBS Institute of Technology for Women Thiruvananthapuram. **Ms. Rintu Johnson**, **Ms. Indhu Luke** and **Ms. Diana Alice Sugunan** coordinated the event.



6) A Lecture on "Importance of field work in Geology" for the course "Engineering Geology" at the department of Civil Engineering on July, 2023. The talk was delivered by **Dr. G. Bindhu**, Superintending Hydrogeologist (Retd), Kerala State Ground Water Department and **Dr. Lal Thomson**, Senior Hydrogeologist, Kerala State Ground Water Department, for the fourth Semester Students. The co-ordinators were **Ms. Diana Alice Sugunan** and **Ms. Radhika P**

INDUSTRIAL VISITS

INDUSTRIAL VISIT TO SOIL MUSEUM

A visit to State Soil Museum and State Soil Information Centre, Trivandrum was organised on 23 June 2023, as a part of Engineering Geology for S4 Civil Students. 92 students accompanied by 6 faculty members were involved.



INDUSTRIAL VISIT TO ARUVIKKARA WATER TREATMENT PLANT

ASCE arranged a one-day industrial visit to Aruvikkara Water Treatment plant for the S6 CE2 Civil Engineering



students on 15 July, 2023. They were introduced to the various methods and stages adopted for the treatment of raw water obtained from Aruvikkara Dam before it was rendered safe of

city distribution. The students could visit 3 Water Treatment Plants having a capacity of 74 mld, 75 mld and 86 mld respectively. The different methods adopted in each of these plants were also explained to the students. 41 students of the class were accompanied by **Ms. Diana Alice Sugunan** and **Mr. Sreeju Nair S B**, Assistant Professor CED.



OUTREACH ACTIVITIES BY THANAL VISIT TO KRIPALAYAM OLD AGE HOME

As the part of THANAL activity (Charity Wing of Department of Civil Engineering), 8 students from CED Department visited Kripalayam old age homes on 13 April 2023. Students



organized some cultural programs followed by lunch for the inmates. **Dr. Alice Thomas** and **Ms. Ansu Mathew** accompanied the students.

NEWLY JOINED FACULTY & TECHNICAL STAFF MEMBERS



Mr. Divyaprasad S P

Two new faculty members **Mr. Divyaprasad S P** and **Ms. Jomy James** Joined Civil Engineering Department in March 2023 and Technical staff members **Ms. Reji S.** and **Ms. Aswani A. J.** joined Civil Engineering Department in September 2023.



Ms. Jomy James



Ms. Reji S.



Ms. Aswani A. J.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWLY JOINED FACULTY-Members



Dr. Priya
Mariam Raju



Dr. Neena Raj N R



Mr. Anand
Haridas



Ms. Merlin
George



Ms. Krishna L.

DEPARTMENT ACTIVITIES

❖ ORIENTATION SESSION ON 'THE CHANGING LANDSCAPE OF JOBS'

The Department of Computer Science and Engineering organized an orientation session for the second- and third-year students of the Department on the topic "The changing landscape of jobs: How to stay ahead". The event was conducted on 7 September 2023 at various venues inside the campus. The resource persons were **Mr. Shaheen Hyder** (Operations Coordinator and Technology Evangelist, GTech µLearn), **Mr. Aswin Asok** (Web Master, GTech µLearn), and **Mr. Salaman Faris** (Alumni 2019-2023 Batch CS1, Strategic Consultant, GTech µLearn).



❖ EXPERT TALK ON 'ROLE OF COMPUTER VISION IN PRE-PLACEMENT TALK'

A pre-placement talk session was conducted on 16 June 2023 at Pascal hall for Computer Science and Engineering



students. The talk was led by the Team from UST Trivandrum. The Session was coordinated by **Mr. Vipin Kumar KC**, Corporate Relation Officer, MBCET and **Mr. Praveen J S**, Placement Coordinator, Dept of Computer Science and Engineering. Student coordinators: **Ms. Medlyn Sara Jacob**, **Mr. Allen Manu Philip** (S6 CS1), **Ms. Aleena Scariah Vempeny**, **Mr. Shawn Siby George** (S6 CS2).

❖ A TALK ON “APPROACH ENGINEERING EDUCATION PROFESSIONALLY”

The Department in association with the CSI SB and ACE organized a talk session for second year B Tech, CSE students on 7 June 2023.

Dr. John Jose, Associate Professor, IIT Guwahati was the resource person. Faculty

Coordinators: **Ms. Deepthi K Moorthy** (Assistant Professor, Dept. of CSE).



❖ PROJECT EXPO

The Department in association with the CSI SB MBCET organised a Project Expo for the final years on 21 May 2023 at Pascal Hall to



demonstrate their final year projects. The exhibited projects were evaluated by our chief guests, **Mr. Rinse P Sambrukutty**, Assistant Engineer TCS and **Mr. Ashiq Shahansha**

–Test Engineer, Infosys. Prizes for Best Project was bagged by the team "Violence Detection in Railway Coaches" from S8 CS2, and the Team "Decentralized Storage Drive Powered by Arweave" from S8 CS1.

❖ LATEX TUTORIAL SESSION

A tutorial session on Latex was conducted for S8 BTech CSE students on 24 and 25 April. Resource Person: **Ms. Jayalekshmi J** (Assistant Professor, CSED).

❖ FLUTTER WORKSHOP

The Department organized a three-day workshop on “Flutter-the versatile cross-platform app” Development

Tool from 17 to 19 April 2023. About 53 students from second and fourth Semesters of various branches participated in the Workshop. The classes were handled by **Sera Mariam George**, **Amal Joe** and **Navaneeth** (final year students of CSE). Faculty Co-ordinator: **Ms Anjali S**.

❖ SUMMER CODING CAMP

The Department CSE, in association with ACE, MBCET, organized a summer coding camp for school students. 30 students from various schools in and around Thiruvananthapuram participated in the camp held during 10 and 14 April 2023. The classes were managed by the faculty members of the College. Faculty Coordinators: **Ms. Dhanya L. K.**, **Ms. Prathibha S. Nair**, Asst. Professors. Dept. of CSE.



❖ TECH 4 ALL PROGRAM FOR WOMEN EMPOWERMENT



Tech 4 All Training program on "Data Analysis," organized by Cognizant foundation in association with ICT Academy of Kerala, 40 female students from Circuit branches attended the sessions on 16 to 18 March 2023.

Soft skill training on these days were handled by **Ms. Hima Sebastian** and her team. Technical Training Sessions were started by **Ms. Anitha B**, Associate Knowledge Officer, ICT Academy. Remaining sessions will be held in April- May 2024.

❖ ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING" CERTIFICATION PROGRAMME

An "Artificial Intelligence and Machine Learning" certification programme started on August 9, 2022. There were 13 people signed up for the programme. Faculty members of the Department of CSE led



classes for the students. The programme ended on October 31, 2022. Certificates were distributed to 9 students who successfully completed projects by **Dr. Abraham T Mathew**, Principal MBCET. Faculty Coordinator: **Ms. Dhanya L K** (Assistant Professor Dept. of CSE).

CYBER FORENSICS -CERTIFICATION COURSE

The Department CSE in association with CDAC-Thiruvananthapuram organized a five-day Certification Course with Hands-on in Cyber Forensic which was completed on 2nd August 2023. **Mr. Hiron Bose**, an expert from CDAC conducted the workshop for third year BTech and MTech CSE students. The various topics related to Corporate Crimes and recovery tools were covered during the workshop. Faculty Coordinator: **Ms. Gauri Shree V K**.



INDUSTRIAL TRAINING PROGRAMME ON FULL STACK DEVELOPMENT

The 5-day Industrial Training Programme on Full Stack development was conducted by Department of CSE in association with UST Global from 24 to 28 April, 2023. 27 students participated in this Programme. Resource Person was **Mr. Thomas George Koshy**, Senior Training Consultant, with UST Global. Faculty Coordinators: **Dr. Tessy Mathew**, **Ms. Jayalekshmi J**



ALUMNI GROUP ACTIVITIES

❖ JAPANESE LANGUAGE TRAINING AWARENESS SESSION

An orientation session on the importance of Japanese Language in Industry was organized on 22 June 2023 at Senatus. **Mr. T D Krishna Kumar**, Former Project



Director: ANERT, Govt of Kerala, Former Manager: TELK (JV between Govt of Kerala and M/s Hitachi Ltd), Former Field Engineer

LNG Projects: Chiyoda Corporation for 10 years (A Japanese Company) and **Ms. Sharanya** (Alumni, CSE) handled the session. 112 students from various departments attended the session. Student coordinator: **Ms. Michael George Thomas**.

❖ ALUMNI ACHIEVEMENT

- o **Mr. Samuel Punnoose John** (CSE Alumni 2013-2017) joined Apple Inc. as System Design Engineer at San Diego, California.



PAPER PRESENTATION

- o **Ms. Prathibha S Nair**, Assistant Professor, Department of CSE presented the paper entitled "*Recent Trends in Deep Learning Based Omnidirectional Image Super-resolution*", at the 3rd Asian Conference on Innovation in Technology (ASIANCON) during 25 & 27 August 2023 sponsored by the IEEE Bombay Section.
- o **Ms. Deepthi K. Moorthy**, Assistant Professor, Department of CSE, presented the paper entitled "*The review of Alzheimer's disease detection using Machine Learning*" at the International Conference held at CARE College, Trichy in August, 2023.
- o **Ms. Jisha Jose** (Assistant Professor, Dept of CSE), Melvin Joseph K, Kashyap Sanal, Megha K Saji, Jini Johnson, Jibi Ann Mathew, Jeena Sharon Philip, presented a paper titled "*An IoT Based Secure Smart Farming*" in the IEEE International Conference on Circuit Power and Computing Technologies organised by Baseliros Mathew II College of Engineering, Kollam, held on 10 and 11 August 2023.
- o **Bharath T U**, Sikha Shaji, Kavya Suresh, Subalesh S [2017-2021 Batch] and **Dr. Tessy Mathew**, Professor, Department of Computer Science and Engineering presented a paper entitled "*Identifying Texting Idiolects Using Transformers*" in the 2023 International Conference on Control, Communication and Computing (ICCC), organized by College of Engineering Trivandrum, and technically co-sponsored by IEEE Kerala Section, 19 – 21 May 2023.

➤ PARTICIPATION IN CONFERENCES/ SYMPOSIA/ WORKSHOPS/ SEMINARS

❖ PARTICIPATED IN "MEETING OF MINDS"

Dr. Jisha John, Associate Professor & HOD, **Dr. Tessy Mathew**, Professor and **Dr. Jesna Mohan**, Assistant Professor, Department of CSE participated in the 'Meeting of Minds' - Colloquium on Industry

Academia Partnership in Artificial Intelligence organized by MERP Systems held at Thiruvananthapuram on 5 April, 2023.

❖ FDP ATTENDED

The following Faculty Members attended FDP's held at various Institutions:

Ms. Deepthi K. Moorthy and **Ms. Lino Zachariah**, Assistant Professors, Dept. of CSE, **Ms. Anjali S**, Asst. Professor, **Dr. Jisha John**, **Dr. Tessy Mathew**, **Dr. Jesna Mohan**, **Ms. Anjali S** and **Ms. Prathibha S Nair**, **Dr. Anne Dickson**, **Mr. Shibu V. S.** and **Ms. Prathibha S. Nair**, **Mr. Shon J. Das**, Asst. Professor, **Ms. Gauri Shree V. K.**, Asst. Professor, Department of CSE.

➤ FACULTY INTERACTION WITH OUTSIDE WORLD

❖ MANAGEMENT COMMITTEE MEMBER, STUDENT ACTIVITY COUNCIL- CSI

Dr. Tessy Mathew, Professor, Dept. of CSE got selected as the Management Committee Member of Student Activity Council-Computer Society of India.

❖ ADD ON COURSE ON COMPUTER TRAINING FOR LAW STUDENTS OF MGCL

Ms. Vishagini V., **Ms. Lino Zachariah**, **Ms. Deepthi K. Moorthy** and **Ms. Gauri Shree V. K.** (Asst. Professors) were resource persons for the training at Mar Gregorios College of Law.



❖ FACULTY AS RESOURCE PERSON

● REVIEWER – PICC 2023

Dr. Tessy Mathew, Professor, Dept of CSE, served as a reviewer in the 7th International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST 2023) organized by Govt. Engineering College, Thrissur during 19-21 April 2023.

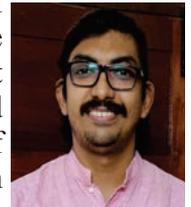


Dr. Jesna Mohan, Assistant Professor, Department of CSE served as resource person for the workshop on "Unlock Technology on Computer Vision" organized by HI team, National Institute of Speech and Hearing on 7 August 2023.



● **Ms. Vijitha Robinson**, Asst. Professor, Dept. of CSE, served as the Resource Person for the session on "Functions, Pointers and Files in C" organized by the Department of Mechanical Engineering at College of Engineering, Trivandrum on 10 July 2023.

- **Dr. Tessy Mathew**, Professor, Department of Computer Science and Engineering served as the judge for 12th CSI InApp Project Awards 2023.
- **Ms. Dhanya L K**, Assistant Professor, Department of Computer Science & Engineering handled a session on "Deep Learning in NLP" on 15 May 2023, in the 12-day long training programme on "Summer School 2023", organized and conducted by the International Centre for Free and Open Source Solutions (ICFOSS).
- **Dr. Tessy Mathew**, Professor, Department of CSE, delivered an invited lecture on the topic "Data Analytics" in the BODHI Interdisciplinary Seminar Series 2023, organized by the PG Department of Mathematics and Department of Statistics, Kumbalathu Sankupillai Memorial Devaswom Board College on 13 March 2023.
- **Mr. Shibu V. S.** and **Mr. Robin Joseph**, Assistant Professors, Department of CSE served as resource persons for the placement training programme held at TKM College of Engineering, Kollam on 28 March 2023 and at LBSITW from 29 to 31 March 2023.



- **Dr. Tessy Mathew**, Professor, Department of CSE and **Dr. Jesna Mohan**, Assistant Professor, Department

of CSE served as resource persons for the hands-on session on AI in the STTP on Smart Grid Technologies, organized by the Department of Electrical and Electronics Engineering, MBCET.

- **Ms. Asha S.**, Associate Professor, Department of CSE served as a Resource Person for the session on “Cloud Computing in Smart Grid” in the STTP on Smart Grid Technologies, organized by the Department of Electrical and Electronics Engineering, MBCET.



➤ PUBLICATIONS

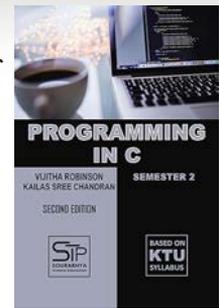
❖ PAPER PUBLICATION

- **Ms. Jisha Jose** (Assistant professor, Dept. of CSE), Ms. Kesia Mary Joies (CSE), Mr. Rahul Sunil (CSE), Mr. Vishnu P. Kumar(ECE) (Students of 2018 – 2022 batch), published a paper in the “Communication and Intelligent Systems” Journal part of the Lecture Notes in Networks and Systems Springer Book Series, Proceedings of ICCIS 2022, Volume 2, pp 411–418, July 2023.
- **Dr. Jesna Mohan** (Assistant Professor, Dept. of CSE) published a paper in the Journal of X-Ray Science and Technology, IOS Press (SCIE).
- **Ms. Anjali S.** (Assistant Professor, Dept. of CSE), Ms. Vinny Pious, Mr. Joel J. Sebastian, Mr. J. Krishnanunni, Mr. Joveal K. Johnson and Mr. Ashik Mujeeb published a paper in the Springer Book series Lecture Notes in Networks and Systems (LNNS, volume 672), Electronic ISSN 2367-3389.
- **Ms. Jisha Jose** (Assistant professor, Dept. of CSE), presented the paper in third International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) organised by Narasu’s Sarathy Institute of Technology, Salem, India on 19-20, June 2023.
- **Ms. Anjali. S, Ms. Vinny Pious,** Joel J. Sebastian, J. Krishnanunni, Joveal K. Johnson and Ashik Mujeeb have published a paper in the Springer Book series Lecture Notes in Networks and Systems (LNNS, volume 672), Electronic ISSN 2367-3389.

❖ BOOK PUBLICATION



The second edition of the book ‘Programming In C’ (ISBN: 978-93-5891-283-8) co-authored by **Ms. Vijitha Robinson** (Asst. Professor, Dept. of CSE) was published in March 2023.



ACCOLADES WON BY STUDENTS

❖ YOUNG INNOVATORS PROGRAMME 4.0 STATE LEVEL WINNERS

Nikita Anna Ajith (S4 CS1), **Ann Santhosh** (S4 EC2), **Maushmi Rajesh** (S4 CS2) and **Abhilash George** (S4 CS2) have won the State Level competition of **Young Innovators Programme 4.0**.

FUNDING FOR STUDENT PROJECT

The student project proposal entitled " Parkinson’s Hand Stabilization Device" by Steve Thomas (S6CS2), Michael George Thomas(S6CS2), Kevin George Bino (S6CS2), Meghna Lekshman (S6CS1) guided by **Dr. Jisha John**, Associate Professor & Head, Dept of CSE, got approval for a funding of Rs 40,000/- from the Center of Excellence for Disability Studies for the year 2022-23.

❖ SECOND PRIZE IN HACKATHON



Revand S. (S6 CS2) and team, won second prize in the hackathon “HACKATHENA”, organized by the Computer Science and Engineering Department and coordinated by the Computer Engineering Students Association (CESA) of Jyothi Engineering College, Thrissur.

PARTICIPATION IN Model United Nations (MUN)

Anand Pillai (S2 CS2), Shone C, Achankunju (S2 EC2), and Yash Chhalotre (S2 EL) from Mar Baselios College of Engineering and Technology participated in a Model United Nations (MUN) organized by TKM College of Engineering, Kollam from March 31 to April 2. Anand Pillai was awarded a Special Mention in All India Political Parties Meet (AIPPM), while Shone C Achankunju received a Verbal Mention in United Nations General Assembly (UNGA) of the MUN.

❖ INTERNSHIP

About 180 students have done internships in various companies like UST Global, ICOONS, Gtech Mulearn, Acsia Technologies, Verzeo, C-DIT, REVERTECH IT SOLUTIONS, SSH Kuwait etc. Moreover, 50 students from CSE Department got selected for an online internship program conducted by Capabl on August 2023. These students are currently undergoing internships in various domains at companies like IBM, Wipro, etc. 5 students from the S8 CSE got shortlisted for the Internship in Nissan Digital India. The Department has already taken initiatives for an internship collaboration with IIT Palakkad in September 2023.

➤ SPARSHAM OUTREACH ACTIVITY

As part of the Sparsham outreach activity, the Department distributed study materials and other essential items to AGAPE Children's Home, Kannamoola, Trivandrum on 3 June 2023. AGAPE Children's Home is an orphanage with 15 dependents of age group 4 years to 18 years. Faculty Coordinators: **Ms. Poorna B.R., Ms. Gauri Shree V.K.**



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CONFERENCES/SYMPOSIA/WORKSHOPS/SEMINARS/WEBINARS/TRAINING/INTERNSHIP ORGANIZED

- The Department organized a one-hour session on 'Career Opportunities on Industrial Automation' for ECE students on 29 March 2023 by **Mr. Githesh S B**, Project Engineer, IPSC. **Mr. Niyas. K. Haneefa**, Asst. Professor, ECED, coordinated the session.
- The Department organized a one-hour session on 'L&T EduTech' for ECE students on 17 May 2023 by **Mr. R. Jayakumar**, Manager. **Mr. Niyas. K. Haneefa**, Asst. Professor, ECED, coordinated the session.
- **Talk Session:** As part of the Communication Research Group, Dept. of ECE, an invited talk was held for final year students on the topic "**Cognitive Radio and its Applications**" on 19 April 2023. The resource person for the session was **Dr. Yamuna K. Moorthy**, Lecturer in Electronics, Department of Technical Education, Govt. of Kerala. Staff Coordinator: **Mr. Sherry Varghese George**, Asst. Professor, ECED.



- **ASSISTIVE TECHNOLOGY (AT) INTERNSHIP 2023:** The Inaugural Ceremony of the Assistive Technology Internship 2023, organized by the Assistive Technology Group MBCET, in association with the Biomedical Research Group (ECED) and IEEE EMBS SBC MBCET, was held on 17 April 2023. **Dr. Viswanatha Rao**, Vice Principal, delivered the inaugural address and **Dr. J. Jayakumari** gave the felicitation address. The internship was held from 17 to 28 April 2023. The sessions were handled by experts from Jyothirgamaya Foundation, Pallium

India, NISH, Kanthari international at Vellayani, etc. **Ms. Simla Balasubramaniyan** [MBCET Alumna, 2013 Batch] shared her untold story of fighting Arthritis since 2014. **Ms. Jomole Joseph**, delivered a session, inspiring the participants to embrace the idea of disability inclusion. **Mr. Harikrishna Sharma** (MBCET Alumnus, Batch of 2022) shared his experiences during the AT internship 2021. 21 participants attended this internship at MBCET.



The Assistive Technology Internship 2023 ended on 28 April 2023. Expert sessions and hands-on sessions were handled by **Mr. Sanju Mathew** (CEO, Code of Duty Innovations), **Mr. Jithin Krishna** (Scientist/Engineer, SCTIMST), **Mr. Vishnu P. Kumar** (MBCET Alumnus & Robotics Software Engineer, Genrobotics), **Mr. Mathew Abraham** (Architect) and **Ms. Ajisha B.** (Product Manager, Embright Infotech). **Rev. Fr. John Varghese Palanilkunnathil**, Bursar, **Dr. Abraham T. Mathew**, Principal **Dr. S. Viswanatha Rao**, Vice Principal and **Dr. M.J. Jayashree** - Head, AT Group & IQAC Coordinator, addressed the gathering. Internship coordinators, **Ms. Amritha B.J.** (Asst. Prof., Dept. of ECE), presented a brief report of the internship and **Dr. Alice Thomas** (Asst. Prof., Dept. of CE) proposed the vote of thanks. Faculty Coordinators: **Ms. Amritha B.J.**, Assistant Professor, Dept. of ECE, and **Dr. Alice Thomas**, Assistant Professor, Dept. of CE.

- **I-YwD (Innovation by Youth with Disabilities) Cohort 3 Selection Camp venue at MBCET:** MBCET hosted the I-YwD Team for the online I-YwD (Innovation by Youth with Disabilities) Cohort 3 Selection Camp on 12 and 13 May 2023. Indian Sign Language (ISL) interpreter, **Ms. Bhavana U B**, helped the Team to communicate in real time with persons having hearing impairment. Project Coordinators:



Ms. Daisy Sebastian, **Ms. Sari P Vishwanath**, **Ms. Anjali Gopan** and **Mr. Avaneesh M** and interns, **Ms. Archa Krishnan S** and **Ms. Jisha M**, were involved in conducting the various sessions. **Prof. Raju K. Gopal** and **Mr. Jith** from the ITMS team ensured smooth conduct of the online sessions that were held in Faraday Hall. Faculty coordinator: **Dr. Lani Rachel Mathew**, Asst. Professor (ECE).

- **ProX-Final Year Project Expo: eNIX**, the Electronics Association of MBCET, organized **ProX** - the final year Project Expo, on 29 May 2023, in the Department of ECE. The 29 exhibited Projects were evaluated by our Chief Guest, **Mr Sanju Mathew**, CEO, Code of Duty Innovations and **Mr. Arjun Shyam**, CEO, Kalpa Sustainable Lightings. The Best Project Awards were bagged by **Aishwarya Nair S**, **Amrutha S**, **Anant Nair**, **Ashwin K** (S8 EC1) for their work titled "Intelligent Speed Adaptation by Traffic Sign Recognition and obstacle detection using Deep Learning" guided by **Mr. Arun J.S.**, Asst. Prof., Dept. of ECE and by **Amal Anilkumar**, **Faizan Ahamed Dawood Majahar**, **Josipha Sebastian**, **Nandan S** (S8 EC2) for their project "Development of Transit Signal Priority Module with Integrated AI Assistant" guided by **Dr. Jayakumari J**, HOD, Prof., Dept. of ECE. Faculty Coordinators: **Ms. Deepa P L**, **Mr. Anoop K Johnson**. (S8 project coordinators, ECE).



- **IPR workshop:** SCTIMST-TiMeD, in association with e-NIX (ECED), IIC and IPR Cell of MBCET, conducted a workshop on "Exploring the World of Intellectual Property & Technology Transfer", on 17 June 2023, at Shannon Hall, for Faculty Members and students. 103 students from across branches attended the Workshop. **Ms. Sandhya C G**, Scientist F, Technology Business Division, **Ms. Indu Govind**, Business Development Manager, and **Ms. Bessy Titus**, Intellectual Property Manager, Technology Transfer Office, TiMeD, SCTIMST, Poojapura, handled the sessions. Five student groups presented their ideas, out of which two winners were identified: **Namitha Kurup P. S**, **Nandana N**, **Santa L. S**, **Ashna Rachel Shine**, **Sona Sagi Geevarghese**, **Theressa Ann Thomas** and **Abhishek D V** from S2CE2 won the first place, while **Adithya S**, **Arif A**, **Angitha Anoop**, **Devika C**, **Joice Mary** and **Harishankar** of S2 EEE won the second place. Staff coordinators: **Dr. Lani Rachel Mathew**, **Ms. Gouri Nandhana** (Asst. Professors, ECED).



- **Research Collaboration:** An NDA was signed between SCTIMST, Trivandrum and MBCET for research collaboration on the 'Development of a Sleep Monitoring Device (including hardware and software, prototype designing, testing and validation)' on 19 June 2023.
- **Sreedevi P S**, **Abhirami J Pradeep** and **Shilpa S P** of 2019-2023 EC2 Batch presented their project "Accessible Plug for Visually Impaired" at NISH, Trivandrum.



- **Intel Unnati Industrial Training- Summer 2023:** As part of Intel Unnati Program, Intel has organized an Intel Unnati Industrial Training- Summer 2023 for the students of the partnering Institutions. In June 2023, 32 MBCET students and were chosen by Intel for the Training Programme. A convocation event was held at the Intel SRR4 campus in Bangalore to award Certificates. The Training Programme was coordinated by **Dr. Swapna P. S.**, Associate Professor, ECED, and **Mr. Jijo Jose**, Assistant professor, ECED. The conclave was attended by **Mr. Jijo Jose**, Assistant Professor, ECED, **Mr. Shibu V.S.**, Assistant Professor, CSED, **Mr. Jinu Baby**, Assistant Professor, ECED, and they all won mentorship certificates.



eNIX – Department Association Activities

- **BAATCHEET:** e-NIX, the Department Association of ECE in association with IIC, presented the next Chapter of Alumni Talk series, BAATCHEET, by our Alumnus Speaker, **Mr. Nandagopal Harikrishnan**, Firmware Design Engineer, Vinvish Technologies Pvt Ltd, on March 27 2023. Mr. Nandagopal, a 2020 alumnus from MBCET, handled a session on "Simplifying RTOS for Product Design & Innovation". 59 students participated in the Session. **Staff coordinators: Mr. Shiras SN and Dr. Lani Rachel Mathew** (Asst. Professors, ECED). Student coordinators: **Brigitta W L** (S8 EC1) and **Josipha Sebastian** (S8 EC2).



COMMUNITY OUTREACH PROGRAMMES

SPANDANAM ACTIVITIES

- As part of Spandanam (Social Service wing of Dept. of ECE, MBCET) activity, 25 school bags were distributed to the needy students residing in Pazhakutty Lakshamveedu colony near Nedumangad, on 01 June 2023.
- As part of the Spandanam (Social Service wing of Dept. of ECE, MBCET) activity, Onam kits sponsored by S6 EC students were distributed to the Supporting Staff of our College on 23 August 2023.



FACULTY ACHIEVEMENTS

- **Ph.D awarded: Ms. Vineetha Mathai**, Asst. Professor, was awarded the Ph.D degree by the Anna University, Chennai, under the guidance of **Dr. P. Indumathi**, Professor and Head, Department of Electronics Engineering, Madras Institute of Technology.
- **Dr M J Jayashree**, Professor, Student Activities Chair received a Certificate of Appreciation in recognition of her activities and initiatives taken up for Student Members' development during AGM 2023 of IEEE EMBS Kerala Chapter at TKM Institute of Technology on 26 June 2023.
- **Dr. Swapna P.S**, Associate Professor, completed NPTEL course on "Introduction to Internet of Things" held from January to April 2023. She completed all the requirements of the Programme with *Elite plus Silver* grade (5% Topper).
- **Mr. Sherry Varghese George**, Assistant Professor, completed NPTEL course on "Evolution of Air Interface towards 5G" held from February to April 2023. He completed all the requirements of the Programme with *Elite plus Silver* grade (5% Topper).

RESOURCE PERSONS FOR WORKSHOPS/ CONFERENCES/EXPERT LECTURES

RESOURCE PERSON (EXTERNAL)

- **Dr. M.J. Jayashree S**, Professor, Dept. of ECE, and IQAC Coordinator,
- Chaired PULSE TALK- Talk 6 session on the topic "Biomedical Materials: Learn to Heal Themselves", on 24 August 2023.



- Delivered an online talk session on "NAAC Benchmarks for Affiliated Colleges" for the Staff Members of DMI ENGINEERING COLLEGE, Aralvaimozhi on 16 August 2023.
- Presented a paper titled "Administrative Audit for Quality Improvement in Higher Educational Institute (HEI)-an imperative component for Internal Quality Assurance of Autonomous Institutions" in the 15th National IQAC Conference (I-con) Revisiting Quality in Higher Education at Kristu Jayanti College Bengaluru on 17 March 2023.

PUBLICATIONS

- Syama Sasikumar and Jayakumari, J., Wireless Personal Communication (2023). <https://doi.org/10.1007/s11277-023-10479-0> (SCI Indexed Journal).
- Revathy Sivanandan & **J. Jayakumari**, The Imaging Science Journal, 68:5-8, 251-258, DOI:10.1080/13682199.2022.2141866. (SCI Indexed Journal).
- Pradeep, A. M., Merly, I. C., George, S. S., Kurian, S. J., & **Swapna, P. S.** (2023, May). In *2023 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication (IConSCEPT)* (pp. 1-6). IEEE.
- **Suresh, Manju**, Rajeev Rajan, and Joshua Thomas. In *2023 Second International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)*, pp. 01-06. IEEE, 2023.
- **Deepa P. L.**, and D. Narain Ponraj. In *2023 4th International Conference on Signal Processing and Communication (ICSPC)*, pp. 229-233. IEEE, 2023.

PARTICIPATION IN CONFERENCES/ WORKSHOPS/FDPs /SEMINARS/ WEBINARS

FDPs/STTPs/WORKSHOPS/CONFERENCE

- **Dr. Paul Thomas**, Professor, **Dr. M. J. Jayashree**, Professor, **Dr. Swapna P.S**, Assoc. Professor, **Ms. Deepa P.L**, Asst. Professor attended the ISO Gap Analysis Workshop and Internal Auditor Training held on 25 and 26 April 2023 at MBCET.
- **Dr M. J. Jayashree**, Professor, Dept. of ECE and IQAC Coordinator, participated in the one-day Orientation Program on Kerala Institutional Ranking Frameworks (KIRF) and State Assessment and Accreditation Centre (SAAC) organized by the Kerala State Higher Educational Council on 24 May 2023

for the Faculty Members of Higher Educational Institutions (HEIs) in Thiruvananthapuram District, Kerala.

- **Mr. Shiras S. N.**, Asst. Professor, Attended a five-day Short-Term Course on "Emerging Technologies for 6G Communications" organized by IEEE Rourkela Subsection at NIT Rourkela from 17 to 21 July 2023.
- **Mr. Sherry Varghese George**, Asst. Professor, attended a five-day Short-Term Course on "Emerging Technologies for 6G Communications" organized by IEEE Rourkela Subsection at NIT Rourkela from 17 to 21 July 2023.
- **Ms. Salga Ann Jacob**, Asst. Professor, attended the webinar conducted by Mr. Sivakumar Karmegam, Innovation Lab Leader at Decathlon Sports India on 9 May 2023.
- Participated in one week online FDP conducted by Annant Gyan Knowledge and Skills Private Limited from 26 June to 01 July and 21 to 26 August 2023.
- **Ms. Merin Philip**, Asst. Professor, attended the 'IoT Train the Trainer Workshop' held on 22 to 26 May 2023 organized by the Dept. of ECE.

ACCOLADES WON BY STUDENTS AND STUDENT ACHIEVEMENTS

- **Project Presentation:** A project Team from S8 EC comprising **Abhinav A. Pillai, Aravind U.R. and Varun George** was selected to exhibit their Project "Electric Wheelchair using Sip and Puff Technology", as part of the "ente Keralam" event organized by the



Government of Kerala, at Kanakakunnu on 20 May 2023. The Project was guided by **Ms. Amritha B J**, Asst. Professor, Department of EC.

- **Mr Reuben Roy Vargis**, the Chairperson

of IEEE EMBS SBC MBCET 2023 received the Special Mention Award on behalf of **Ms. Terrin Mary Stephen**, Member of Industry and Public Relations Team of IEEE EMBS Kerala Chapter SA Execom 2022. Ms. Terrin is from S8 EC2 (2019-2023).

ALUMNI ACHIEVEMENTS

- **Mr. Udayachandran K** (2012-2016) EC2 Batch got admission at IIT Roorkee for pursuing MBA.



- **Mr Charles Jebaraj** of 2014-18 EC1 Batch got selected for PhD admission for Biomedical Engineering at Department of Applied Mechanics, IIT Madras.

- The TEDx talk, 'Weaving Fairytales with Data' by Ms. Gopika Maya Santhosh of 2011-2015 ECE Batch has been published on their official YouTube channel. (<https://www.youtube.com/watch?v=T05ZLkISdvw>).



- **Mr. Rohith R** of 2015-2019 EC1 batch completed his M.Tech in Embedded Systems (2021-23) from BITS Pilani.

PLACEMENT, HIGHER STUDIES & INTERNSHIP

72 out of 111 outgoing students of (2019 - 2023 B.Tech Batch) from the Department got placed with 151 offers. Two students went for higher studies in the academic year 2022-23. 217 students completed internships in the academic year 2022-23.

NEWLY JOINED FACULTY



Ms. Nikhila P



Ms. Gouri Nandhana



Ms. Jeena Viji



Mr. H. Aravind Sharma

NEWLY JOINED TECHNICAL STAFF



Ms. Ancy A



Mr. Chandramohan

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

DEPARTMENT ACTIVITIES

SHORT TERM TRAINING PROGRAMMES

- The Department of Electrical and Electronics Engineering organized a Short-term Training Program on "Hands-on Training on Industrial Automation" from 5 to 10 September 2023. Coordinators: **Dr. Sheryl Arulini A** and **Mr. Anil J**, Assistant Professors, EED



- The Department organized a 6-day STTP on "Smart Grid Technologies – SGT '23" from 17 to 22 April 2023. The Programme was sponsored by AICTE SPICES Sponsored Club. 54 participants from various Institutions including Faculty Membes, Research Scholars and UG/PG students registered for the course. The STTP was coordinated by **Ms. Soumya A V** and **Ms. Shilpa Susan Peter**, Assistant Professors, EED.

The Programme was inaugurated in Faraday Hall, MBCET on 17 April 2023 by **Er. Rajeev K R**, Energy Technologist B in EMC. **Ms. Soumya A V**, Coordinator of the STTP gave a brief description about the programme overview and welcomed the participants and the Chief guest. **Dr. Abraham T Mathew**, Principal, gave the Presidential address followed by the lamp lighting. **Rev Fr. John Varghese** presented the memento to the Chief Guest and **Dr. Nisha G.K**, Head of the EEE Department, offered felicitation. **Ms. Shilpa Susan Peter**, Coordinator of the STTP proposed the vote of thanks.

WEBINARS ORGANIZED

The Department in association with Energy Management Centre, Kerala organized an EMC Online Certification

Programme on "Recent Trends in Sustainable Energy Management Practices" on 14 and 18 September 2023. The Programme was coordinated by **Ms. Vandana P.** and **Mr. Aswin R B**, Assistant Professors, EED.

- The first session was conducted on 14 September 2023 on the topic "Energy Conservation" in Google meet platform. The Resource Person was **Er. Tomson Sebastian**, Energy Technologist, EMC, Kerala.
- The second session of this series was conducted on 18 September 2023 on the topic "Renewable Energy and Energy Efficient Technologies". The Resource Person was **Er. Anoop Surendran**, Energy Technologist, EMC, Kerala.
- The third and fourth sessions were conducted on 20 and 22 September 2023, on the topic "Energy Management and Energy Efficiency in Electrical Utilities". The sessions were handled by **Er. Abhijith M.R.**, CEO, Esyls, TrEST Park, Thiruvananthapuram.
- The fifth session was conducted on 23 September 2023, on the topic "E-mobility – Sustainable Transport". The session was handled by **Dr. Nisha G K**, Professor and HOD, EED.

The Department organized a **Smart Grid Webinar Series** on 13 and 20 April 2023. The Resource Persons was **Dr. Arun Kumar Verma**, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology (IIT), Jammu and **Dr. Astha Chawla**, Siemens Technology, Bengaluru The session was coordinated by **Dr. Sheryl Arulini A** and **Mr. Anil J.**, Assistant Professors, EED.

IN-HOUSE PROJECTS COMPLETED

- Abhishek R Krishnan**, **Anand Vijay**, **Rohit V K** and **Sangeeth P B**, S8 students of EED, completed their final year project titled "Design and Development of a Modular Rescue Tool for Saving the Child from Open Bore Well". The Project was guided by **Dr. Dishore S V**, Assistant Professor, EED.
- Jithin Joy**, **Krishna Sankar**, **Soorya Rethnakaran**, **K M Abhijith** and **Amy Rachel Robby**, S8 students of EED, completed their final year project titled "Landslide Detection and Warning System". The project was guided by **Ms. Surasmi N L**, Assistant Professor, EED.

EXPERT TALKS (External)

- Dr. Nisha G K**, Professor and HOD, EED delivered a Technical Talk on the topic "Plug in Electric Vehicle and Grid Integration" on 10 May 2023 for the National

Conference at the Visvesvaraya Bhavan, Trivandrum, conducted by The Institution of Engineers (India) Kerala State Centre.

EXPERT TALKS (Internal)

- **Dr. Nisha G.K.** gave a talk on the topic “E-mobility – Sustainable Transport” on 23 September 2023 for the EMC Online Certification Programme on "Recent Trends in Sustainable Energy Management Practices", organised by Department of Electrical and Electronics Engineering in association with Energy Management Centre, Kerala.
- **Ms. Soumya A V**, Assistant Professor, EED handled two sessions on the topic “Linear Motors” on 4 and 9 May 2023 for the S8 EEE students as part of their elective subject, Special Electrical Machines.
- The IEEE PES SB MBCET in connection with IEEE PES Day 2023 organized a 3-Day series with the theme “Powering a Climate Safer Future”. As part of this, **Dr. Dishore S V**, Assistant Professor, EED delivered an online Expert Talk on "The Role of Sustainable Energy for a Safer Future” on 22 April 2023.

INVITED LECTURE

- The EV Research group, Department of Electrical and Electronics Engineering organised an invited lecture on “Foundation to Electric Vehicles” for the students of EEE on 19 May 2023. The Resource Person was **Mr. Pradeep Kumar Keloth** (Adjunct Professor of Practice at Amrita School of Engineering, Coimbatore and MBCET, Former HoE, Electrification at Bosch). 45 students attended the talk. Faculty coordinators: **Dr. Dishore S V** and **Mr. Anil J**, Assistant Professors, EED.

VISIT TO NISH

Dr. Shalu George K., Associate Professor, EED and **Ms. Soumya A V.**, Assistant Professor, EED, along with a group of students of S8 EE visited the National Institute of Speech and Hearing (NISH) on **01 March 2023**, as part of the discussion of their project entitled “Smart Ergonomic Office Chair”. The Project was completed and the Team won the Best Project Award in the NABIOCON '23 (National Conference on Biomedical Instrumentation and Signal Processing, 2023) organized by the Department of Biomedical Engineering, TKM Institute of Technology, in association with Telemedicine Society of India, SCTIMST-TIMed, EMBS Kerala Chapter and IEEE EMBS TKM IT during **26 and 27 June 2023**.

ILLUMINA ACTIVITIES

EXPERT TALK

Illumina, in association with Control Systems Research group organized an expert talk on “Role of Optimal guidance in soft landing of Chandrayan-3”



on **13 September 2023**. The resource person was **Dr. Radhakant Padhi**, HAL Chair Professor, Dept. of Aerospace Engineering, IISc., Bengaluru. Coordinator: **Mr. Aswin R B**, Assistant Professor, EED.

AWARENESS TALKS

- Illumina organized an awareness Talk on “Drug abuse” for the third-year students of the Department of Electrical and Electronics Engineering on 20 May 2023. **Mr. Deepu S R**, Excise Range Officer, Nalanchira was the speaker. 70 students attended the talk. Coordinators: **Ms. Manju Sreekumar** and **Ms. Shilpa George**, Assistant Professors, EED.
- Illumina organized an awareness talk on “Drug abuse” for the first-year students of the Department of Electrical and Electronics Engineering on 31 May 2023. **Mr. Sunil Kumar**, Sub Inspector, Excise Department, Nalanchira was the Speaker. Around 90 students attended the Talk. Coordinators: **Ms. Manju Sreekumar** and **Mr. Anil J.**, Assistant Professors, EED.

PROJECT EXPO

Illumina organized a Project Expo – an exhibition of final year projects on 29 May 2023 in the Faraday Hall. **Mr. Midhun M S**, (Alumnus, 2016-2020 EEE batch), Engineer, Veli Research Centre, ISRO and **Mr. Vishnu M. Nair**, (Alumnus, 2017-2021 EEE batch), Data Scientist, Siemens were the Guests for the day. Two best projects were awarded a cash prize of Rs. 3000/-

Best Project Awards:

S8 EE1:

Project: **Borewell Rescue System**
Members: Anand Vijay, Abhishek R Krishnan, Sangeeth PB, Rohit VK
Guides: Dr. Dishore SV, Ms. Revathy KP

Project: Implementation of Multipurpose Fastag
 Members: Rohith U Nair, Laby Mathew Ninan,
 Greeshma DG, Jeenu L Jose, Arya A
 Guide: Dr. Sheryl Arulini, Ms. Neetha R Chandran



S8 EE2:

Project: Vertical Axis Wind Turbine using Axial Flux Generator

Members: Joana J John, Riya Rajesh, Sujin Reji,
 Sanjay J S
 Guides: Mr. Anil J, Dr. Dishore SV.

Project: Industrial automation and implementation of coconut breaking system

Members: Vaishnav Dev B, Tomin J S, Vivin John
 Thomas, Mayoorka Venu
 Guide: **Dr. Nisha G K, Ms. Sandhya P**

SOCIAL SERVICE ACTIVITIES: Illumina

- In association with NSS distributed 85 food packets at Govt. Medical College on 15 September 2023.
- In association with EEE 2016-20 Alumni Batch sponsored the electrification works of a house at Mannanthala.



INTERACTION

In association with EV research group organized a programme on “Practical solutions to curb IC Engine Technology” on 26 May 2023. The Resource Person was **Mr. Ramesh**, the Senior consultant of Manatech Pvt Ltd. Coordinators: **Dr. Dishore S V and Mr. Aswin R.**

HANDS-ON SESSION FOR OUTREACH

Organized a three-day hands-on session on Arduino and Robotics for school children from 24 to 26 May 2023. The sessions were handled by **Mr. Anil Kumar**, Project Engineer, MBCET and there were 22 participants from various schools in the city. A prize money of Rs. 5000/- was handed over by **Dr. Abraham T. Mathew**, Principal at the valedictory function to the winner in the competition.

TALK ON INDUSTRY ORIENTED LEARNING WITH L&T EDUTECH

Conducted a Talk on “Industry Oriented Learning with L&T EduTech” for S4 and S6 EEE students on 17 May 2023 in Faraday Hall. The Resource Person was **Mr. K. K. Jembu Kailas**, Lead SME, Electrical & Electronics Engineering, L&T EduTech. Around 45 students attended the session.

TRAINING PROGRAMME



The Association of the Department of EEE organized a three days hands-on training programme on “Electrical Systems and Electric Vehicles” for school students. Thirty-one students from various schools in and around Thiruvananthapuram participated in the training which started on 4 May 2023. The participants got practical experience in electrical wiring and EV modelling. The training ended on 6 May 2023. Faculty coordinators: **Ms. Surasmi N L., Mr. Ayush Vijayan.**

TALK ON CAREER GUIDANCE

Organized a Talk on the topic “Career Guidance” in the Faraday Hall on 20 April 2023. The talk was attended by S6 EEE students. The Resource Person was **Mr. Jayaraj K**, Trainer and Motivator, TIME. The talk was coordinated by **Dr. Shalu George K**, Associate Professor, EED and **Ms. Shilpa George**, Assistant Professor, EED.

FACULTY CONTRIBUTIONS

PARTICIPATION IN ANERT EXPO

Dr. Dishore S V, Mr. Aswin R B and Mr. Anand B H of EED attended the RE and EV expo conducted by ANERT. The retrofitted EV autorickshaw developed by a team of Faculty Members from EED consisting of **Dr. S. Ushakumari, Dr. Nisha G K, Dr. Dishore S V, Mr. Aswin R B and Mr. Anand B H** of EED in the EV laboratory was displayed in this expo from 30 May to 1 June 2023.



SESSION CHAIR

Dr. Nisha G K, Professor and HOD, EED Chaired a session on 6 May 2023 in the 2nd International Conference on Modern Trends in Engineering Technology and Management (ICMEM 2023) at Sree Narayana Institute of Technology Adoor, which was held during 4 and 6 May 2023.

GUEST SPEAKER

Dr. Sheryl Arulini A delivered a talk on “Smart Grid Cybersecurity Unveiled” at Saveetha Engineering College (Autonomous), Chennai on 15 September 2023.

Ms. Soumya AV Assistant Professor, EED and IET MBCET Faculty in-charge was a Guest Speaker for the Campaign event of IET- on Campus, Poddar Institute of Management and Technology, West Bengal, India, on 8 September 2023.

FACULTY ACHIEVEMENTS

RESEARCH PAPERS/PUBLICATIONS

- **Dr. Dishore S V**, Assistant Professor, EED published 2 papers in (1) Electrical Engineering (Springer Publication). DOI:10.1007/s00202-023-01822-6 (SCI indexed, Impact Factor 1.8). (2) in the Journal of Vibration and Control (SAGE Publication) with an impact factor 2.63 (Q1-journal).

PAPER PRESENTATION

Ms. Surasmi N. L., Assistant Professor, EED presented two papers titled "Hybrid Multilevel Inverter Control for Harmonic Mitigation" and "Grid-integrated Solar Photovoltaic Converter Control for Power Quality Enhancement", in IEEE International Conference on Control, Communication and Computing (ICCC 2023) organized by the College of Engineering Trivandrum from 19 to 21 May 2023.

BEST PAPER AWARD

Ms. Surasmi N. L., Assistant Professor, EED received the Best Paper Award for the paper titled "Hybrid Multilevel Inverter Control for Harmonic Mitigation" in IEEE International Conference on Control, Communication and Computing (ICCC 2023) organized by the College of Engineering Trivandrum from 19 to 21 May 2023.

FACULTY AWARDS

- **Dr. Nisha G K**, Prof. HoD, Dept. of EEE received the Distinguished Faculty Award from Venus International Foundation at a function in Chennai on 15 July 2023. She was also awarded the Certificate of Excellence in Reviewing in recognition of her outstanding contribution to the quality of the Journal of Engineering Research and Reports, indexed in Ebsco, Proquest, Index Copernicus and Google Scholar.

BOOK PUBLISHED

Dr. Dishore S V, Assistant Professor, EED published a textbook “Electric Vehicle Architecture” with ISBN 978-81-961898-6-0, published by Lakshmi Publications.

ACADEMIC COMMITTEE MEMBER TO AN INTERNATIONAL CONFERENCE

Dr. Sheryl Arulini, Assistant Professor, EED has been invited to attend the 3rd International Conference on New Energy and Power Engineering (ICNEPE 2023) as Academic Committee Member. The Conference will be held in Zhengzhou, China from November 24 to 26, 2023.

SELECTION FOR PhD

- **Ms. Vrinda Prasad**, Assistant Professor, EED got selected for PhD Programme of the Centre for Research in Nanotechnology and Science (CRNTS) at IIT Bombay.
- **Ms. Revathy K P**, Assistant Professor, EED secured admission for PhD in the area of Power Electronics at Kalasalingam Academy of Research and Education, Tamil Nadu.

Courses/Workshops/Webinars/Trainings attended by Faculty

1. **Mr. Aswin R B** attended a two-day IEEE National Symposium on “Emerging Technologies in Green Energy” from 8 to 9 September 2023.
2. **Dr. S. Ushakumari**, Professor, EED attended Theme centred interaction Stage 1 on the theme “Leading myself and others with TCI” from 12 to 15 September 2023 at Sthala, Thiruvananthapuram.
3. **Dr. Nisha G K, Ms. Sandhya P. and Ms. Surasmi N L** attended a One Week FDP on "E-Mobility and Associated Power Electronics" from 21 to 25 August 2023 organized by the Department of Electrical & Electronics Engineering, Ajay Kumar Garg Engineering College Ghaziabad.
4. **Ms. Revathy K P** participated in the Faculty Development Programme on “Tricks and Techniques for Research Article and Thesis Writing using Modern e-tools” on 2 August 2023 organized by the Department of Mechanical Engineering, Baseliros Mathews II College of Engineering.
5. **Mr. Abel George**, Placement Officer and **Ms. Soumya AV**, (Waste Management Cell Coordinator), Assistant Professor, EED represented MBCET for an "Awareness Session on Green and Sustainable Practices for Buildings and Industries" on 9 August 2023 at Taj Vivanta. The session was hosted by CII and IGBC, which was sponsored by Novenco and Panache. **Ms. Neethu Jain**, MD of Panache Green Tech Solutions, gave the keynote address on mitigation measures for UHI and Climatic Solutions.
6. **Dr. Dishore S V** participated in DST PURSE Workshop on “Future of Sustainability: Electric Vehicles and Smart Grid” from 27 to 29 July 2023, organized by the Centre for E-Mobility and Department of Electrical and Electronics Engineering, SRM institute of Science and Technology, Katankulathur, Chennai. He participated in 2 FDPs organized by the Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, and Star International Foundation for Research.
7. He completed the 20 hours fastrack course on "Electric Vehicles", organised by the Department of Electrical and Electronics Engineering, Sri Ramakrishna Engineering College, Coimbatore from 2 to 5 May 2023.
8. **Dr. Nisha G K, Dr. Shalu George K., Ms. Sandhya P., Ms. C. Sojy Rajan, Ms. Manju Sreekumar, Ms. Surasmi N L., Ms. Vandana P., Mr. Aswin R B, Ms. Shilpa George, Ms. Revathy K P, Ms. Vrinda Prasad and Mr. Anil J** attended the six-day Short Term Training Programme on **Smart Grid Technologies – SGT '23** sponsored by AICTE SPICES Sponsored Club and organized by the Department of Electrical and Electronics Engineering, Mar Baselios College of Engineering and Technology, Trivandrum, from 17 to 22 April 2023.
9. **Dr. Nisha G K, Ms. Surasmi N L, Dr. Dishore S V** attended the State Electric Vehicle Consortium Conclave series 2023 on “LTO Batteries and its Battery Management System (BMS)” conducted by Kerala Development and Innovation Strategic Council (K-DISC) on 5 April 2023 at Hycinth Hotel, Thiruvananthapuram.
10. **Dr. Ushakumari S** (Dean, Corporate Relations), **Dr. Shalu George K., Ms. Manju Sreekumar** and **Dr. Sheryl Arulini** from EED attended ‘Meetings of the Minds’ - a panel discussion organized by MERP Systems to discuss the current industrial trends/needs and academic focus to explore collaborative synergies in the application of Machine Learning and AI, on April 5, 2023, at the Mascot Hotel in Thiruvananthapuram. The team was joined by **Dr. Jayakumari J**, (HoD ECE), **Ms. Deepa P L** (Assistant Professor, ECE), **Dr. Jisha John** (HoD CSE), **Dr. Tessa Mathew** (Professor, CSE), **Dr. Jesna Mohan** (Assistant Professor, CSE), and **Mr. Vipinkumar K. C**, COO (Corporate Relations).
11. **Dr. Dishore S V, Ms. Soumya A V, Ms. Shilpa Susan Peter** and **Ms. Vrinda Prasad** from EED along with **Dr. Premchand V P** and **Mr. Bobin Saji George** (MED) and **Mr. Jinu Baby** and **Mr. Jijo Jose** (ECED) attended the seminar on “The Rise of Electrification and Robotics Autonomous Systems: Trends and Opportunities” conducted by MathWorks on April 4, 2023 at Hycinth Hotel, Thiruvananthapuram.
12. **Dr. Nisha G K**, Professor and HOD, EED attended the Online Workshop and Panel Discussion on “Revised SSR Manual and Benchmarks for Affiliated Colleges”, organized by IQAC, Mar Ivanios College (Autonomous) on 28 March 2023.
13. **Dr. Nisha G K**, Professor and HOD, EED and **Ms. Elizabeth Varghese** Assistant Professor, EED

successfully completed the 5-day online Short-Term Course (STC) titled “Emerging Applications of AI and IoT: Opportunities and Challenges-2023”, organized by the Department of Electrical Engineering, National Institute of Technology Jamshedpur from March 22-26, 2023.

14. Ms. Anila A V, Assistant Professor, EED has undergone 15 sessions of Innovation Ambassador Training (Foundation level), conducted in online mode by MoE’s Innovation cell and AICTE during March, 2023.

15. Dr. Dishore S V, Assistant Professor, EED attended a six-day DST-PURSE supported workshop on "Power Converters for EV Chargers and Motor Control - Future Prospects" organized by the Department of Electrical & Electronics Engineering, SRM Institute of Science and Technology Kattankulathur, Tamil Nadu from 6 to 11 March 2023.

16. Ms. Anila A V, Assistant Professor, EED successfully completed the 5-day online FDP on "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education from 6 to 10 March 2023.

MOOC COURSE ATTENDED

Dr. Dishore S V completed the 4-week NPTEL course on “Electric Vehicles – Part I” with Elite certificate, conducted by IIT Madras during Jan-Feb 2023.

TRAINING ATTENDED BY LAB STAFF

Mr. Senthil Kumar E., Mr. Midhun Gopal V., Ms. Prabha S., Ms. Shabina N., Ms. Smiji R. S., Mr. Vishnu Chandran C. L., Mr. Sajjan S. S. and Mr. Arun N., Members of Technical Staff, EED attended a five-day Online Workshop on Electrical Designing and Drafting conducted by Centre for Skill Development and Innovative Research from 17 to 21 April 2023.

STUDENT CONTRIBUTIONS

ACCOLADES WON BY STUDENTS

Best Paper Award

Vrinda S S, Shilpa Nair U S, Sai Krishnan A K, Aadhil Ansar and Sabin George, S8 students of EED bagged the Best Paper Award worth ₹10k, for their presentation on “Smart Ergonomic Office Chair” in the NABIOCON '23 (National Conference on Biomedical Instrumentation and Signal Processing, 2023) organized by the Department of Biomedical Engineering, TKM Institute of Technology,

in association with Telemedicine Society of India, SCTIMST-TIMed, EMBS Kerala Chapter and IEEE EMBS TKM IT during 26 and 27 June 2023. The Conference was based on the theme “Revolutionizing Healthcare: Exploring Modern Medical Technology”. The Project was guided by **Ms. Soumya A V and Dr. Shalu George K.**

ALUMNI NEWS

- **Ms. Sanjna Pramod** (EEE Alumnus 2016-20) got admission for M.Eng Electrical and Computer Engineering in the University of Windsor, Ontario, Canada in September 2023.
- **Mr. Aneeth M, Alumnus of EEE (2016-20)** got admission for Applied Data Science and Analytics in SRH Hochschule Heidelberg in June 2023.

ACTIVITIES OF IEEE POWER AND ENERGY SOCIETY (PES) STUDENT BRANCH CHAPTER

WORLD ENVIRONMENT DAY

On the special occasion of World Environment Day on 5 June 2023, IEEE PES Student Branch at MBCET took a step towards a greener future by organizing a tree-planting ceremony in the college garden. The students gathered for the ceremony, took the pledge by upholding the values to maintain a sustainable habitat.



IET PROFESSIONAL BODY ACTIVITIES



The Secretary of IET MBCET On Campus and Mechanical Engineering Graduate **Ms. Arghya P S** achieved a remarkable feat by earning a spot on the shortlist for the IET India Scholarship. Out of a staggering 43,137 students who applied, Arghya's exceptional accomplishments placed her within the top 30 in the South region and the top 150 nationwide.

ON - SIET

ON - SIET is a small initiative by IET MBCET On-Campus under IET MBCET's Outreach 150 to achieve the SDGs - Sustainable Development Goals in our community. Along with the Panchayat, IET MBCET On-Campus in collaboration with NSS MBCET, conducted a clean-up drive at two local tourist attractions at Pirappancode, Manikkal Panchayat on July 15, Saturday. 50 student volunteers participated for the clean-up drive.

DEPARTMENT OF MECHANICAL ENGINEERING

YANTHRA 23 PROJECT EXPO – FINAL YEAR ME STUDENTS

An exhibition showcasing the work done by the final year ME Dept students was conducted at the Department of Mechanical Engineering on 19 May 2023. The exhibition was formally inaugurated by **Rev. Fr. John Varghese Palanilkunnathil** (Bursar) in the presence of **Dr. Abraham T. Mathew** (Principal) and **Dr. Remil George Thomas** (HoD-ME). 26 projects were exhibited. Faculty Coordinators: **Dr. Vinod V.** and **Dr. Rajesh T N.**

Certificates and cash prize were awarded to the following top 3 Final Year Projects.

1. Flexible Single Valve PSA Oxygen Concentrators for Medical Use done by **Akul Lal, Ananthan A, Yethil A N.** Guide **Dr, Nidhi M.B.**
2. Thermophysical Property Estimation of Anisotropic Material using Inverse Heat Transfer Technique done by **Aswathy Mohan, Nithik Sudeesh, Sivan Nair, Arghya P S.** Guide **Mr Abhiram R Nair.**



3. Parametric Study on Fins for Waste Heat Recovery using Thermoelectric Generators done by **Allen Babu, Anamika Vijayan, Aromal R V, Nikhil Krishna R S.** Guide **Mr. Vaisakh S Nair.**

Expert Talk

The Mechanical Engineering Association AUTOMATA along with Placement Cell MED organised a talk on 'Higher Studies Abroad – Opportunities in Australia, USA, Canada, New Zealand, Ireland and UK' on April 26th 2023. Resource Person: **Ms. Aiswarya Sasidharan**, Branch Manager, IDP Education, Trivandrum.



FACULTY ACHEIVEMENTS

- **Dr Vinod V.**, Associate Professor MED, served as BoS Member of Mechanical Engineering in APJAKTU.
- **Mr. Bobin Saji George**, Assistant Professor MED, served as Program Committee member and Reviewer for 4th Congress on Intelligent Systems (CIS 2023) organised by Department of Computer Science and Engineering, CHRIST (Deemed to be university), Bangalore, sponsored by AICTE and Soft Computing Research Society during September 04-05, 2023.



- **Dr Nidhi M.B.** Associate Professor MED :
 - o Got listed and published as Rising Sparks 2023 - by Foxstory 2023. She also got nominated for Best Women Teacher award 2022 by ISTE.
 - o got selected for the MIET Mehaboobi Mohammed Yunus Memorial National Award for the 'Best Women Teacher' awarded by ISTE New Delhi.
 - o delivered a talk on 'Design Thinking for Social Innovation' at Curtin University Dubai on April 14, 2023.
 - o was felicitated for her participation in the Judging Panel at the College of Engineering Trivandrum,



School of Management, as part of the Yamistha 2k23 Management Fest on April 27, 2023

- o served as Session Chair at the National Conference on 'Recent Trends in Design and Application in Energy Development Programme' held on 10 & 11 May 2023 organised by The Institution of Engineers (India), Kerala State Centre under the aegis of Mechanical Engineering Division Board, IEI.
- o was the Chief Guest at the 5 day STTP on Machine Learning for Cyber Security organised by Toc H Institute of Science and Technology on May 26, 2023. She also delivered a session on 'Role of AI and ML in Cyber Security'
- o inaugurated the Social Science Club at Madhuvan Sai Vidyashram School Trivandrum on 20 July 2023.
- o attended EMPOWER pre conference, organised by NISH for innovative solutions in Assistive Technology on August 11-12 2023
- o delivered session on 'Green to Smart Manufacturing: Panorama of Transition' as part of National Seminar at the Institution of Engineers India (IEI) Trivandrum on 23 Aug 2023.

PUBLICATION

Dr. Muraleedharan Nair.K, Vaisakh S Nair 24th International Shock Interaction Symposium, IIT Madras, Chennai (SIS-2022)

Dr. Muraleedharan Nair.K, Vaisakh S Nair Fluid Mechanics and Fluid Power (Vol.2, pp147-151) Springer, Mechanical engineering book series. He published two more papers in (1). 1st International Conference on Mechanical Engineering: Researchers and evolutionary challenges, NIT Warangal and (2). 1st International Conference on Mechanical engineering: Researchers and evolutionary challenges, NIT Warangal.

CONSULTANCY WORK

The Department rendered Consultancy Work in their CIRU and Exhaust Gas Analyser facility from external sources.

STUDENT ACHEIVEMENTS

Harvard World Records accepted in the first round, the idea (of transforming India's future through financial literacy - one-rupee revolution) submitted by **Mr. Austin Easso Prasad**, S8 MED.



The paper by Allen Babu, Anamika Vijayan, Aromal RV, Nikhil Krishna RS (under the guidance of **Mr. Vaisakh S. Nair**, Asst Professor, MED) was presented at the 2nd International Conference on Energy Resources and Technologies for Sustainable Development (ICERTSD 2023), IEST Shibpur, India.



Akul Lal, Ananthan A, Yethil A N presented a paper guided by **Dr Nidhi M B**, Assoc Prof MED, MBCET at Mohandas College of Engineering and Technology on 25 March 2023 as part of the International conference on Operations Research, Differential Equations, Numerical Analysis, Computing and applications -CORDENUM ACA'23,



The following papers were presented by final year Mechanical Engineering students at the National Conference on 'Recent Trends in Design and Application in Energy Development Programme' held on 10 & 11 May 2023 organised by The Institution of Engineers (India), Kerala State Centre under the aegis of Mechanical Engineering Division Board, IEI.

- Paper on 'Flexible Single Valve PSA Oxygen Concentrators for Medical Applications' by Mr. Yethil. A.N., Mr. Akul Lal, Mr. Ananthan A., and **Dr. Nidhi M. B.**, Associate Professor, MED.
- Paper on 'Battery performance Analysis' by Ms. Shilpa Nair U. S., Mr. Sethuraman R. S., Ms. Vrinda S. S. and **Dr. Nidhi M. B.**, Associate Professor, MED.
- Paper on 'Review on Battery Thermal Management System of Electric Bus' by Mr. Stebin Philip Biju, Mr. Akshay V. B., Mr. A. Sai Sreedhar, Mr. G. J. Roopesh and **Dr. Nidhi M. B.**, Associate Professor, MED.

National Champion

Vignesh Kailas of S6 ME-1 represented Kerala at the National Level Rajasthan IT Day Hackathon conducted by the Government of Rajasthan.

Ms. Arghya P.S. (S8ME1) received Special Mention Jury Award: Baselian Award 2023

Mr Joel Thomas of S6 ME1 recently competed in a National Level Best Manager Competition hosted by CET School of Management Trivandrum and came in first place.



Umesh M Chandran of S6 ME-1 Secured Bronze Medal in 400 Mts. Race in the APJ AKTU Athletic Meet.

Madhav Krishana (S6 ME2) and **Umesh M Chandran** (S6ME1) was part of 4 X 100 meters' relay team that won Gold at 5th APJAKTU Athletics meet.

ALUMNI NEWS



Nithin Jo Varghese, 2015-19 ME, joined for PhD at Princeton University, USA under Prof. Jyotirmoy Mandal in studying Light and Heat Transfer/interaction at Multi-scale to Develop Advanced Optical Metamaterials.

It falls under the purview of both the Department of Civil and Environmental Engineering and the Department of Materials and Metallurgical Engineering.

DEPT. OF SCIENCE & HUMANITIES

FDP/Conferences Attended

- **Ms. Anaswara Johny** participated in "Awareness and Internal Auditor Training with ISO 9001:2015" (April 25-26, 2023) at MBCET, Thiruvananthapuram.
- **Dr. Renjini M. Nair** and **Ms. Anaswara Johny** participated in the 5 day FDP on "UNIVERSAL HUMAN VALUES" organized by AICTE from (May 29 -June 2, 2023).
- **Ms. Sabitha S. Nair** and **Ms. Syama S. Mohan**, participated in a three-day online 'National Conference on Applied Mathematics and Numerics' organized by Postgraduate and Research Department of Mathematics Mar Ivanios College (Autonomous) Trivandrum and Department of Mathematics Indian Institute of Space Science and Technology (IIST) Trivandrum (March 8- 10, 2023).
- **Ms. Sabitha S. Nair** and **Ms. Anaswara Johny** participated in a 5 day FDP on 'Discrete Mathematics organized by Department of Mathematics', School of Advanced Sciences, Vellore Institute of technology (13 -17 June 2023).
- **Ms. Syama S. Mohan** participated in a one-day webinar on "Empowering Excellence Through MATLAB AND SIMULINK" on 4 August 2023 organized by CoreEl Technologies, Bengaluru.

Ms. Lakshmi J.S presented a paper in the two-day National Conference on Advanced Functional Materials-2023 at VTMNSS College, Dhanuvachapuram (23-24 March 2023).

Ms. Ammu Maria Ashok presented a paper titled 'A Study of Adaptation of Mahabharata in English Translation' at The Interdisciplinary International Conference on Mahabharata Epic across Asia at The English and Foreign Language University (Central University), Hyderabad

Ms. Lekshmi I

Presented a paper titled 'A Comparative Study of F- MARCOS and F-COPRAS Methods to Diagnose Vector-Borne Diseases' at the National Conference on Advances in Graph Theory on 3 March 2023 organized by Malankara Catholic College, Kaliakkavilai, Tamil Nadu.

Presented a paper titled 'An Extended Application of Fuzzy COPRAS Decision-Making Model in Medical Diagnosis' at the National Conference on Applied Mathematics and Numerics held during March 8-10, 2023 Organized by Mar Ivanios College & Indian Institute of Space Science and Technology, Trivandrum.

Dr. Krishnamohan G.P *et al* published "Experimental and Theoretical Investigation of Degradation Activity of Layered Two-Dimensional MoS₂-ZnS Nanocomposites in ECS J. Solid State Sci. Technol., 12, 055004 (2023, SCI indexed). DOI 10.1149/2162-8777/acd144.

DEPARTMENT OF PHYSICAL EDUCATION

The MBCET Volleyball Team lifted the Runner up trophy in the All Kerala Inter Collegiate Volleyball tournament held at Govt. College Attingal (2nd April) as part of their fest Daksha

Intra-mural Volleyball Championship was held on 2 April 2023 in College Volleyball Arena. 10 Teams participated in this Championship.





Shone C Achankunj of S2EC2 won the Silver Medal in the 100 Meters' race in the 5th APJ AKTU Inter-Collegiate Athletic Meet held on 29 April 2023.

Anamikaa S Nair of S8 EC2 won Gold Medal in Discus Throw in the 5th APJ AKTU Inter-Collegiate Athletic Meet held on 29th April 2023.

The MBCET Volleyball Team lifted the Champions Trophy in the All Kerala Inter Collegiate Volleyball Tournament hosted by Basेलios Mathew II College of Engineering by defeating FISAT, Angamali in the Semi-finals and BMC, Kollam in the Finals



The MBCET Volleyball Team lifted the Runners Trophy in the All Kerala Inter Collegiate Volleyball Tournament held at UKF College of Engineering, Paripally, Kollam. Vineeth Roshan of S6(CE-1) was selected as the Best Player of the Tournament

The MBCET Volleyball Team lifted the Champions Trophy in the All Kerala Inter Collegiate Volleyball Tournament held at the College of Engineering, Perumon by defeating BMC, Kollam in Semi-Finals and VKCET, Paripally in Finals

The Volleyball Team lifted the 4th



Baselian Volley Cup (All Kerala Inter Collegiate Tournament) by defeating Lourdes Matha Engineering College, Kuttichal. The two-day Tournament was inaugurated by our Principal and Vice

principal.

University Athletic Meet Champions

Annual University Athletic Meet held at Chandrasekharan Nair Stadium, in which the College came to the 4th Position in the Men section, 5th in the Women's section and 5th in the Overall Position among the 76 Engineering Colleges participated, The event was held from 27 to 29 April 2023.



Dr. Christi Francis, Asst. Director of Physical Education got First position in Javelin Throw and Discus Throw in the KTU Annual Athletic Meet conducted for Staff.

MUSIC CLUB ACTIVITIES

Participation in Crossroads and College Day

The Music Club Members displayed their musical talents during Crossroads 2023 and the College Day held from 12 to 14 May 2023. Several students participated in the programme.

LIBRARY UPDATES

MBCET Library conducted a Seminar for S6 ECE and CSE Students on "IEEE – Enhancing Your Project Work and Research" on 16 May 2023 at Visvesvaraya Hall (CED). 191 Students attended the session. **Mr. Nanda Lal TS**, Senior Training Manager, EBSCO Information Services was the Resource Person. **Mr. Binu K John**, Librarian welcomed the gathering and **Mr. Vijitha Robinson**, Asst. Professor (CSE) delivered vote of thanks.

MBCET is now a part of **(IRINS) Indian Research Information Network System**. To make research more visible, an effort has been made to consolidate College research on one platform to showcase the research of the Institution and Individual Faculty Members. MBCET Faculty / Institute Research Profile (<https://mbcet.irins.org>) has been developed with the assistance of INFLIBNET Centre Ahmedabad. The Central Library is proud to coordinate implementation of IRINS & Vidwan Portal at MBCET. Click on the link to visit the IRINS instance: <https://mbcet.irins.org/>.



MBCET Faculty Research Profile helps faculty to showcase their research and can update their activities such as Journal Articles, Books, Book chapters, Funded Projects,

Awards, Supervision, and many more. It also facilitates the visibility of research impact in the form of citations and h-Index. This Initiative by INFLIBNET Centre also helps other organisations to use data for the selection of experts for various research domains. **Mr. Binu K John**, Librarian has been designated as the Nodal Officer for IRINS & Vidwan Portal for the institution.

MBCET Library celebrated "National Reading Month" from June 19 to July 18. On the auspicious of the event Library Conducted an Online Reading Quiz on 7 Friday, July 2023 for MBCET Students. The winners were: 1st Prize - Ben George Netto - CSE / S6 , 2nd Prize - Evana Anna Lalu - CS1 / S2, and 3rd Prize Nitin Sreekesh - S2 ME worth Amazon Gift voucher Rs.3000, Rs.2000 and Rs.1000 respectively.

As part of the Student Induction Programme (**SIP- 2023**), MBCET Library conducted Seminar "**Know Your Library – MBCET Library Liaison Program-cum-Orientation Session**" from 18 September 2023 to 25 September 2023 for all batches of first year **B.Tech** students at their respective class rooms.. **Mr. Binu K John**, Librarian was the Resource person and **Mr. Sambhu BK** coordinated the sessions.

MBCET Library conducted Seminar "**Know Your Library – MBCET Library Liaison Program-cum-Orientation Session**" on 27 September 2023 at Senatus Hall for all of Batches 1st year **M.Tech** students. **Mr. Binu K John**, Librarian was the Resource person.

year B. Tech students on 25 and 26 November 2022 at the Amenity Centre.

National Level Workshop on Koha conducted by Institution of Librarians and Information Scientists (ILIS) on 9 & 10 September 2023 at the LBS Institute of Technology for Women, Thiruvananthapuram. Resource Person: **Mr. Sabeesh T**, Asst. Librarian, MBCET.

➤ PLACEMENT UPDATES

The Final year students (2019 - 2023 batch) got placements in various reputed companies like Qburst, Speridian, Cognizant, Experion Technologies, EY, H&R Block, Quest Global, Aurionpro etc. There were 326 offers. The hiring process for the current final year class of students (2020-2024) has begun.

Placement Statistics	
Company	Offers
EY	8
Aurionpro	8
Qburst	43
H&R Block	10
Cognizant	60
Speridian	22
IBS	15
Experion Technologies	15
Quest Global	13
HCL	13
TCS	15
NeST	3
BlueBinaries	12
Investnet	4
Federal Bank	8
Terrific Minds	5
Acsia Technologies	2
Bimlabs	17
Zoho	2
Vinvish	6
Allianz	3
Bond Interiors	1
TATA Elxsi	41
Total offers	326



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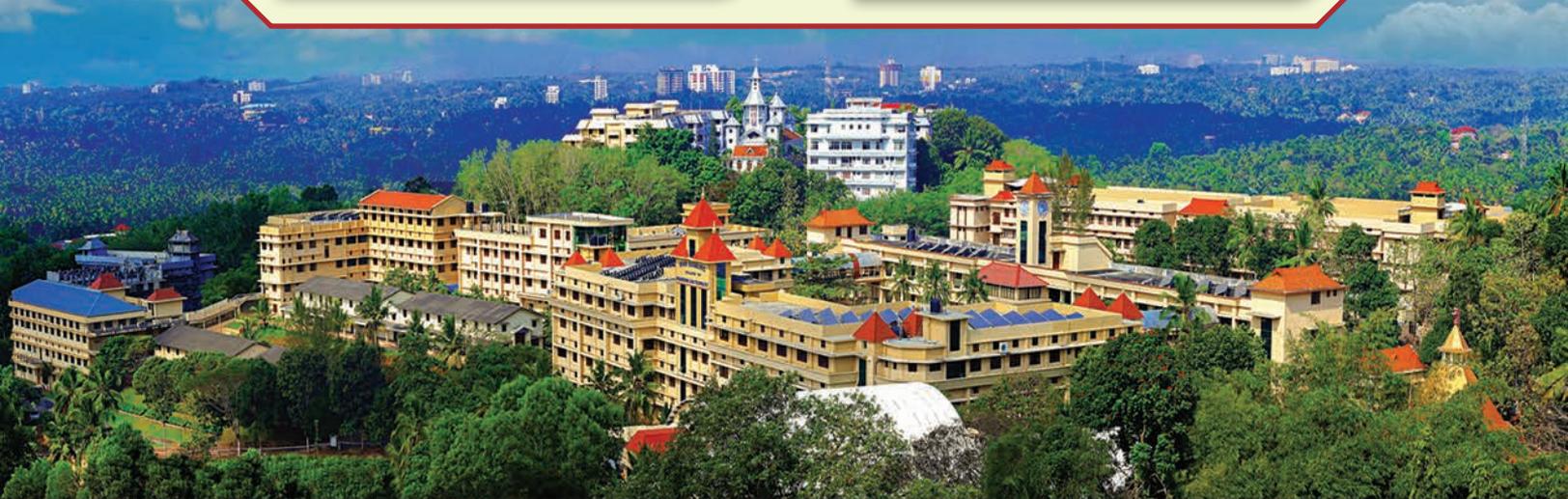
College code : MBT

B. Tech

Courses	Number of seats
Computer Science and Engineering	126
Electronics & Communication Engineering	126
Civil Engineering	126
Electrical and Electronics Engineering	63
Mechanical Engineering	95
Computer Science and Engineering (AI)	63
Electrical and Computer Engineering	63

M. Tech

Courses	Number of seats
Structural Engineering	18
Computer Science and Engineering	18
Power Control and Drive	09
Telecommunication Engineering	18
Machine Design	18
Transportation Engineering	18
IOT and Sensor Systems	18



The founder conceived it. We build it. Posterity sustains it.

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