



In Altum...

The MBCEJ News Letter



Accredited by
NAAC
with 'A' Grade
since 2016

Mar Baselios College of Engineering and Technology (Autonomous)

Mar Ivanios Vidyanagar, Nalanchira, Thiruvananthapuram - 695 015.

College code : MBT

Five B Tech
Programmes
Accredited by
NBA
since 2016

**MBCET B.Tech Programmes
secured
NBA Tier 1 Accreditation**



**National Model Racketry Competition
MBCET Team won "Excellent" Grade**



MOUs Signed



ASAP Kerala



ICFOSS



International IoT
Communication Technologies Pvt. Ltd.



**Wrestling Champion
Aishwarya Balakrishnan
Menon**



**Iconic Researcher
Award Winner**



**Visit of Dignitary
Dr. Koiti Hasida,
Director, AIP, Japan**

Vision : To be an Institution moulding globally competent Professionals as epitomes of Noble Values.
Mission : To transform the Youth as technically competent, ethically sound and socially committed professionals, by providing a vibrant learning ambience, for the welfare of humanity.

Message from the Director



Engineering: Journey of Discovery, innovation, and Impact
Greetings from MBCET!

Engineering, the word originated from the latin words "ingenium" (Cleverness) and "ingeniare" (to contrive or devise). The word engineering that carries both

challenge and promise. It is not merely a course or degree but a discipline that shapes the very foundation of our modern world. From the very beginning, every engineer's journey is a story of curiosity, creativity and courage.

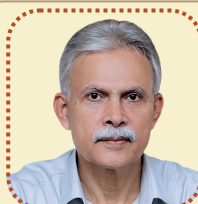
Dear students, Engineering is not only about technical knowledge but it is also about Communication, teamwork and creativity. So it is imperative to collaborate with your peers, learn from your mentors and challenge yourself to think beyond what is in front of you, because innovation happens when you connect ideas from different fields and perspectives.

Engineering today stands at the crossroads of immense opportunity and unprecedented, challenge. The world today demands not only technical knowledge but also creativity, adaptability and ethical responsibility. Artificial Intelligence, renewable energy, automation and data science are redefining what it means to be an Engineer. So look beyond the class room and take part seriously in projects, research and internships that expose real problems and practical solutions.

I extend my sincere gratitude and wishes to all stakeholders who are engaged in moulding future Engineers. Let's continue to learn, lead and create.

- Fr. John Varghese

Principal's Desk



Mar Baselios College of Engineering and Technology (MBCET) is dedicated to delivering high-quality education, supported by a strong curriculum, effective teaching methods, state-of-the-art infrastructure, and a nurturing student environment. MBCET places a strong emphasis on skill development, recognizing it as a cornerstone

of modern education. This focus on practical skills recently earned MBCET the prestigious Top Performing Campus Award at Permute 2025, India's largest Skill Festival, organized by the G.Tech uLearn Foundation. Furthermore, MBCET actively fosters a culture of innovation and entrepreneurship. The establishment of the First Satellite Centre of the Trivandrum Engineering, Science and Technology (TrEST) Research Park on campus is a key initiative to promote a thriving start-up ecosystem. The college is also strengthening collaborations with industries and reputable research organizations to provide students with a significant advantage in their career preparation.

MBCET's commitment to quality is underscored by the Tier-1 accreditation for five B.Tech programmes: Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, and Mechanical Engineering by the National Board of Accreditation (NBA). This accreditation, valid from July 1, 2025, to December 31, 2028, is a testament to the sincere efforts, commitment, and collaborative spirit of the entire MBCET fraternity. We take this opportunity to convey our profound gratitude to all our stakeholders who have extended their unwavering support in this journey towards excellence.

- Dr. S. Viswanatha Rao

Bursar speaks.....



As I join MBCET as Bursar, I'm filled with gratitude and excitement to be part of a community that ignites knowledge to illuminate the world. I felicitate our dedicated faculty and vibrant students for pushing the boundaries of Engineering and embracing the

transformative power of artificial intelligence.

We envision a world where Technology enhances human potential, addresses global challenges, and serves humanity's greater good. Yet, true advancement lies not just in innovation, but in our shared human values—empathy, integrity, and ethical stewardship. At MBCET, we're committed to fostering integral development, nurturing technical prowess, holistic growth, and social responsibility. Together, let's cultivate leaders who engineer not just machines, but minds and hearts for a harmonious tomorrow.

I'm inspired by our collaborative energy and confident that, with collective endeavours, MBCET will continue to be a beacon of enlightened progress. Let's stride forward, hand in hand, toward a future where technology amplifies our humanity.

- Fr. Dr. Koshy Issac Punnamoottil

Editor's Note.....



"...abiding in the midst of ignorance, thinking themselves wise and learned, fools go aimlessly hither and thither, like the blind led by the blind" (Kathopanishad II-5). This Upanishadic verse justifies the state of affairs globally, where ego manifests in terms of political dominance, social and religious rivalry, extremism, terrorism, racial bigotry,

and fundamentalism causing chaos.

Remembering the Greek philosopher Heraclitus, it may be said, everything is in a state of flux. Accordingly, the instability of man is reflected by nature — or is it vice versa?

The La Niña and El Niño effects cause climate change globally, leading to droughts and calamities. Heatwaves and cloudbursts, the outward signs of climate change, cause physical and psychological trauma and displacement, which are to be tackled with.

In this chaotic situation, every student has to equip himself/herself, being aware of the challenges ahead, remembering the response of Mr. Sundar Pichai, the CEO of Google, to Mr. Donald Trump, the President of America, during a discussion: "Technology is a hammer; it can be used to build and break things." Evolve as a professional to build the future using the tool of science and technology with the soothing power of humaneness.

A gist of the life of MBCET over the past six months is presented on these pages. Evaluate, evolve, and inspire...

- Dr. George Zacharia

MODEL ROCKETRY COMPETITION

MBCET Team won "Excellent" Grade in the IN-SPACE Model Rocketry India Student Competition organized by Astronautical Society of India in association with ISRO. Team Name:



VIDYUTH MBCET, Student Members: (2021-25 Batch EEE), **Arunesh J. B.** (Team Lead), **Bharath Dharmendra**, **Allen B. R.**, **Nevin Thomas Thomas**, **Adarsh H.**, **Akash S. Gopinath**, **Geofrey Kuriakose John** and **Dev Siddharth**. This work was done as two parts in their final year B Tech Project : Structural Design and Stability Analysis guided by **Dr. Elizabeth Varghese**, Assoc. Prof. & HoD, EEE and **Mr. Ayush Vijayan**, Asst. Prof. Telemetry and Avionics guided by **Mr. Aswin R. B.** & **Ms. Shyju Susan Mathew**, Asst. Professors.

MOU SIGNED BETWEEN MBCET AND ADDITIONAL SKILL ACQUISITION PROGRAMME KERALA

An MOU was signed by MBCET with Additional Skill Acquisition Programme Kerala, a State Public Sector Undertaking fully owned by Government of Kerala under Higher Education Department on 23 April 2025. **Smt. Preethy Leonold**, Head Procurement, ASAP Kerala, and **Dr. S. Viswanatha Rao**, Principal, MBCET signed the MoU. **Sijeesh P. I.**, Associate Director Training Division and **Ms. Janaki Venukumar**, Product Head Training Division, ASAP Kerala were also present in the function.



MOU SIGNED BETWEEN MBCET & ALIBI GLOBAL PRIVATE LIMITED



An MOU was exchanged between MBCET and Alibi Global Private Limited on 03 April 2025. **Shri. Bhadran V. K.**, Director Alibi Global Private Limited and **Dr. S. Viswanatha Rao**, Principal, MBCET signed the MoU. **Dr. Sunil S. P.**, Director Operations and **Ms. Manju S. L.**, HR Head, from Alibi Global were also present in the function.

TECHNICAL MEETING WITH LOYAL CONTRACTORS – ULTRATECH CEMENT LTD. & MBCET CIVIL DEPARTMENT

UltraTech Cement Ltd., in collaboration with the Civil Engineering Department, organized a technical meeting for its loyal contractors on 29 July 2025, at the Centre of Excellence (COE), MBCET. The event saw active



participation from contractors across the region, along with Technical staff.

MOU WITH ICFOSS

MBCET signed an MoU with ICFOSS on 03 July 2025 for active research and development of Unmanned Aerial Vehicles. The MoU aims at establishing a centre of excellence in innovative UAV technologies using open source software systems. The MoU was signed by our Principal **Dr. S. Viswanatha Rao** and



Dr. Sunil T. T., Director, ICFOSS. Head of the department of Mechanical Department **Dr. Remil George Thomas**, **Dr. Nidhi M. B.**, **Dr. K Muraleedharan Nair** and **Mr. Vaisakh S. Nair** were also present in the function.

MOU WITH INTERNATIONAL IOT COMMUNICATION TECHNOLOGIES PVT. LTD

MBCET has signed an MoU with International IoT Communication Technologies (IICT) Pvt. Ltd on 26th May 2025. IICT – International IoT Communication Technologies GmbH, is a deep-tech spin-off company founded from the ivESK Research Institute, Germany. They specialize in developing systematic educational testbeds and hands on training labs that empower learners and professionals to build real-world skills in AIoT (Artificial Intelligence of Things), Embedded AI, IoT Communication Technologies, Next-Generation Wireless Networks (5G, 6G, LPWAN), Industrial Industrial IoT and Automation, IoT/5G Security and Embedded Edge etc. IICT presents a Lab as a Service (LaaS) model for MBCET, which can be later used for delivering advanced training in AIoT(Artificial Intelligence of Things), Embedded AI, and future communication networks such as 5G, IoT, LPWAN technologies and its usecase development through structured hybrid training labs.



TECH SOCITIES IET

BAG THE PLASTICS! – IET ONLINE IDEATHON 2025

The IET MBCET On Campus organized "Bag the Plastics!" on 3 July 2025, encouraging innovative ideas to eliminate plastic bag waste and promote sustainability in line with the UN SDGs. Nine creative entries were presented, with **Aaron S. Varghese** winning first place for "Bhoomibags" and **Vasundhara S. R.** securing second place for "Green Box." Winners received a cash prize of ₹1,500.



40-HOUR BOOTCAMP ON DRONE/UAS TECHNOLOGY

The 40-Hour Bootcamp on Drone/UAS Technology, conducted from 23rd to 27th June 2025 at the College of Engineering Trivandrum, was an impactful and technically enriching for 140+ participants, initiative organized by the National Institute of Technology Calicut (NITC) in collaboration with the IET On Campus communities of CET and MBCET.



TINKERIET

IET MBCET conducted TinkerIET, an event for second-year students, on 19 July 2025 at the MBCET campus. The event began a talk by



Vaibhav K. (MBCET alumnus) who spoke about future opportunities and career pathways after Engineering. Over 60 students participated in the event. On the occasion, IET MBCET honored the former OB team members by presenting them with mementos in appreciation of their valuable contributions.

IEEE WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS

On 04 April 2025, the IEEE Robotics and Automation Society (RAS) Student Branch Chapter at MBCET, in collaboration with KSCSTE, Parent Information Centre - Kerala, and IPRIC-K, organized a workshop on Intellectual Property Rights. The workshop featured three technical sessions by **Shri R.S. Praveen Raj**, Scientist, CSIR, NIIST, **Ms. Chaithanya P. C.**, Scientist, PIC and **Shri Anumod S.** Patent Examiner, Chennai. The event attracted 57 participants—45 students and 12 faculty members—who gave highly positive feedback.



VOICES FOR CHANGE: DIALOGUES WITH ASSISTIVE TECHNOLOGY USERS AND PROFESSIONALS

IEEE EMBS MBCET conducted two user interaction sessions to understand the needs of differently abled individuals and assistive therapy professionals. The sessions held in March and April 2025 included six participants in the first and three in the second.

SHECLICKS-PHOTOGRAPHY COMPETITION

On 16 April 2025, IEEE WIE MBCET, in collaboration with FRAMES MBCET, conducted a Women's Day photography competition with seven participants. Certificates were distributed to winners. Winners: 1st – **Adithya Mohan** (S2 EC2), 2nd – **Pavithra S. S.** (S2 CS1), 3rd – **Vedha Mahadevan** (S4 CS2).

ENVIRONMENT DAY CELEBRATIONS

Environment Day was celebrated on 05 June 2025 at Govt. LPS School, Pangod, organized by IEEE PES Kerala Chapter. The event included an awareness session, drawing competition, and tree plantation drive. MBCET students **Akshay Kumar P.** and **Bhadhra G. Nair** coordinated the activities.



ASSISTIVE TECHNOLOGY INTERNSHIP

An 11-day Assistive Technology Internship was held from 09 to 20 June 2025. The internship included expert sessions, field visits, and student project presentations. It attracted 35 participants—21 IEEE members and 14 non-IEEE members.

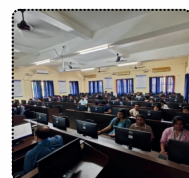


CAREER IN DATA ENGINEERING

The online session "Career in Data Engineering" was conducted on 25 June 2025 by IEEE Computer Society SBC MBCET, led by **Ms. Suma V.** Data Engineer. 24 persons—3 IEEE members and 21 non-IEEE members, participated. Winners in Quiz Competition. 1st – **Sradhya Renish** (S5 CSE2), 2nd – **Ayana K.** (S5 CSE2), 3rd – **Riya Shaji** (S5 CSE1).

HANDS ON ML WITH ORANGE

On 02 August 2025, the IEEE SPS MBCET Chapter conducted a one-day workshop titled "Hands-On Machine Learning Workshop with Orange Software." 58 students participated in the event.



TALK SESSION ON CAREER OPPORTUNITIES

The talk session "Amazing Technologies Shaping Our Future" by **Mr. Nandan S.** was held on 9 August 2025. The session attracted 9 participants—8 IEEE members and 1 non-IEEE member.

SCAN THE GREEN

On 09 August 2025, the event "Scan the Green" was organized to transform the herbal garden into an interactive learning space. Student teams created digital posters linked with QR codes for plants.

PVOLVE: WORKSHOP ON SOLAR PV SYSTEM DESIGN AND DEVELOPMENT

IEEE PES SBC MBCET, in association with IEEE PES Kerala Chapter, conducted "PVOLVE 2025" on 10 August 2025 at MBCET. The workshop had 46 participants—8 IEEE members and 38 non-IEEE members.

DISCONNECT TO RECONNECT: GLASS PAINTING EDITION

IEEE EMBS WiBE hosted "Disconnect to Reconnect: Glass Painting Edition" on 28 August 2025, mentored by alumna **Ms. Simla Balasubramanian**. 9 students participated.



SHRIIEEEK '25

ShrIEEEK '25, the flagship event of IEEE SB MBCET for first-year students, was held on 27 September 2025 at Olympia. The event included technical challenges and activities organized by IEEE societies. Participated 194 students, including 4 IEEE members, supported by 26 volunteers.

**COMPUTER SOCIETY OF INDIA
(CSI) ACTIVITIES**

RADIANCE 2.0: LIGHTS, CAMERA, 2.0!

Radiance 2.0, the grand fresher's event of CSI SB MBCET, organized on 13th September 2025, welcomed 55+ first-year students. Faculty Coordinators: **Ms. Deepthi K. Moorthy** and **Ms. Krishna L.** (Asst. Professors, CSED).

**DECODE 2025: DEBUG & CONQUER**

CSI SB MBCET, in collaboration with the Department of CSE, successfully hosted DeCode 2025: Debug & Conquer on 09 August 2025. Attended 30+ students joining in. The top three champions bagged cash prizes for their sharp debugging skills.

**ECOCANVAS – CANVAS OF CHANGE,
COLORS OF HOPE!**

CSI SB MBCET, in association with the Department of CSE, organized EcoCanvas, a poster-making competition from 5th to 13th June 2025, held in online mode, on the theme "Blending Nature with Innovation". Winners: 1) GreenBrush Laureate (Hand-drawn), First prize: **Mr. Avin Joy** (S4 CS), Second prize: **Mr. Devika D. V.** (S2 CE), GreenPixel Maestro (Digital), First prize: **Mr. Josh Jacob Sunil** (S2 CT), Second prize: **Ms. Vedha Mahadevan** (S4 CS).

**EXPERT TALK ON "THE ROLE OF AI IN
THE IT INDUSTRY"**

The Department of CSE, in association with the CSI Student Branch, MBCET, and the Center for Computational Intelligence and Cyber Security, MBCET, organized an expert talk on "The Role of AI in the IT Industry" for S4 CS2 and CT students on 28 March 2025. The session featured esteemed speakers from Infosys, including Mr. Joseph Alex, Principal Technology Architect; Mr. Arun Thomas, Principal Technology Architect; Mr. Roy M. J., Senior Technology Architect; and Ms. Vidhya R. C., Technology Architect. The faculty coordinators for the event were **Mr. Anand Haridas** and **Dr. Priya Mariam Raju**, Asst. Professors, Dept. of CSE.

**TALK SESSION ON THEORETICAL
COMPUTER SCIENCE**

CSI SB MBCET in association with the Department of Computer Science and Engineering organized a talk session on *Theoretical Computer science* on 07 March 2025 for S6 CSE students, **Dr. Renjith P.**,



Assistant Professor, NIT Calicut and **Dr. Ashwin Jacob** were the resource persons. Faculty coordinator: **Ms. Deepthi K. Moorthy**, **Ms. Krishna L.**, CSE Department, MBCET.

ISTE

**FIGMA FUNDAMENTALS: AN
INTRODUCTORY SESSION**

The ISTE Students' Chapter of MBCET organized an online session on "Figma Fundamentals" on 09 July 2025 via Google Meet, with 60 participants in attendance. The session was conducted by **Mr. Niranjana R.**, Chairperson of CSI MBCET and a student of S5 CS2.

CYBERSECURITY QUIZ

The ISTE Students' Chapter of MBCET conducted the "Cybersecurity Quiz" on July 20, 2025, attracting 42 participants. The event commenced with an introductory session by **Mr. Krishna Prasanth**, followed by the quiz conducted on the Mentimeter platform. **Gowri R. G.** (S5 ME2), **Elza Sabu** (S5 CS2), and **Keshav S. S.** (S3 CT) secured the first, second, and third places.

**EXPERIENCE SHARING SESSION:
STUDENT MOBILITY PROGRAM**

The ISTE Students' Chapter of MBCET organized an enriching "Experience Sharing Session" on 25th July 2025, showcasing the Student Mobility Program undertaken by six students of MBCET at Universiti Teknologi MARA (UiTM), Malaysia.



Conducted offline provided a vibrant platform for the participants to share their international experiences, including academic insights, cultural learnings.

**TALK SESSION ON EDUCATIONAL
OPPORTUNITIES IN EUROPE AND ASIA
POST-ENGINEERING**

The ISTE Students' Chapter of MBCET, in association with the Department Library of CSED, organized an engaging and informative online session titled "Educational Opportunities in Europe & Asia Post Engineering" on 30th July 2025. The session was led by **Mr. Arjun Ramesh**, Management Consultant at 180 Degrees Consulting, Paris, who shared expert

insights on higher education abroad, covering study destinations, scholarship opportunities, student life, and career pathways across Europe and Asia. The event was coordinated by **Dr. Nidhi M. B.**, **Ms. Poorna B. R.**, and **Ms. Vijitha Robinson**.

ISTE AGM 2025 Annual General Meeting – ISTE Students’ Chapter, MBCET

The Annual General Meeting (AGM) of the ISTE Students’ Chapter, MBCET, was held on 6 October 2025 in Senatus Hall. The event commenced with an introductory address by **Ms. Joan Eliza Joe**, Chairperson of ISTE SC MBCET. The programme included the felicitation of mentors, outgoing Executive Committee (Execom) members, and junior Execom members, followed by the introduction of the new Execom. In connection with World Teachers’ Day, celebrated on 5 October 2025, handmade cards were presented to the faculty by the Execom as a token of appreciation.



The Felicitation Address was delivered by **Dr. Nidhi M. B.**, ISTE National Executive Committee Member and Mentor. Faculty Advisors **Mr. Melvin Jacob** and **Dr. Soumya A. V.** also addressed the gathering. The event concluded with the introduction of new mentors and Execom members, coordinated by **Mr. Snith Shibu**, former General Secretary of the Chapter.

ISTE-KOMBANS Football Collaboration Event



The ISTE Students’ Chapter MBCET, in collaboration with Kombans Fanatics, conducted a vibrant football-themed event titled “Rising Tuskers” on 9 October 2025. The event was coordinated by **Abhishek S.** and graced by **Dr. S. Viswanatha Rao**, Principal, and **Rev. Fr. John Varghese**, Director, who also joined the activities. Faculties **Mr. Melvin Jacob**, Mechanical Department, and **Dr. Christi Francis**, Assistant Director, Physical Education, were present.

IEDC

Under the supervision of **Mr. Arjun J. S.**, Asst. Prof. in CE, the Nodal officer, **Vasundhara S. R.** the CEO, and **Agnivesh P. S.**, the chief operations officer coordinated the events Permute 2025, Figma Config Watch Party ‘25, Evening Cafe Edition 3 Episode 1 and Inceptra VIII.

CATALYST IEDC AT FIGMA CONFIG WATCH PARTY 2025

On May 10, 2025, **Friends of Figma: Thiruvananthapuram** hosted the Figma Config ‘25 Watch Party at CareStack – Good Methods Software



Solutions Pvt. Ltd., Technopark Phase 3. The exclusive event brought together design professionals and enthusiasts to stream the global conference from San Francisco and London.

Catalyst Mar Baselios IEDC & TRIBE proudly represented the student community, with attendees **Agnivesh P. S.** (S4 CS1), **Sabareesh P. R.** (S4 CS1), **Devika S. H.** (S4 CS1), **Gayathri Girish** (S2 CS2), **Ganga B. Nair** (S2 CT), and **Sunny Abraham Mathew** (S2 EL). The team engaged with top design leaders like **Vignesh I.** (Air India), **Abhishek Roy** (Oracle), and **Sivaprasad Paliyath** (IBM), gaining valuable insights into the world of product and UX design.

Catalyst TRIBE also served as the official community partner of the event, marking a proud moment for the college's growing presence in the design ecosystem.

CATALYST IEDC AT FIGMA CONFIG WATCH PARTY 2025

The first episode of the **Evening Cafe – 3rd Edition**, organized by Catalyst IEDC on 16th September 2025, featured **Mr. Nikhil Chandran**, Founder & CEO



of TILTLABS. He delivered an engaging session on “Gaming: The Scope & Breakthroughs”, where he explored how gaming, AR/VR, and immersive technologies are revolutionizing industries and opening up exciting career pathways for aspiring professionals.

Conducted in association with TILTLABS, one of Kerala’s leading game realization companies, the event drew the participation of 48 students.

INCEPTRA VIII

Catalyst IEDC, in collaboration with µLearn MBCET, hosted **Inceptra VIII**, a two-day startup bootcamp held on 27th and 28th



September 2025. The event brought together 112 enthusiastic first-year students. The bootcamp was inaugurated by **Mr. Arun J S**, Former Nodal Officer of Catalyst IEDC and current **HR Lead at InApp**. **Gautham Jais** (S1 CT) and **Anasooya P. Nair** (S1 CT) were honored with the titles of **Mr. Inceptra** and **Ms. Inceptra 2025**, recognizing their exceptional performance, creativity, and enthusiasm throughout the two-day bootcamp.

ANTI-DRUG ABUSE AWARENESS PROGRAM

As a joint initiative by the Performing Arts Club and the Anti-Narcotics Cell, the event to observe National Drug Abuse Resistance Educatio



n (D.A.R.E.) Day was held at Arena, the OAT on 19 Sept 2025. Through a compelling mix of dance and drama, the performers conveyed a strong message about the importance of resisting substance abuse and making positive life choices.

DEPARTMENT OF CIVIL ENGINEERING

MOOC COURSE

Dr. Neethu Roy and **Dr. Jisha S. V.** completed the 8 week NPTEL course on "The Science of Happiness and Wellbeing" conducted by Indian Institute of Technology Kharagpur.

FACULTY DEVELOPMENT PROGRAMME

- The following five faculties: **Mr. Nitin S., Mr. Sijo M. Saji, Dr. Amal Raj, Ms. Indhu Luke** and **Ms. Sangeetha Sajeev**, Assistant Professors, Department of Civil Engineering, successfully completed a four week NPTEL Faculty Development Programme course on "Effective Engineering Teaching in Practice" offered by IIT Madras.
- Ms. Radhika P.** and **Dr. Anupama Krishna D.**, Assistant Professors, Department of Civil Engineering, successfully completed an eight-week NPTEL Faculty Development Programme course on "Development and Application of Special Concrete" offered by IIT Madras.

PARTICIPATION IN GIAN COURSE AT IIT HYDERABAD

Dr. Jayasree S., Professor, **Dr. Jisha S. V.**, Associate Professor and **Mr. Sreeju Nair S. B.**, Assistant Professor in CE attended a GIAN (Global Initiative of Academic Networks) course on "GFRP Bar Reinforced Concrete Construction: Theory, Analysis & Design" conducted at IIT Hyderabad from 04 to 14 August 2025. As part of the course, an industrial visit was arranged to SVS Hydraulics Pvt. Ltd.

PAPER PRESENTATION

Dr. Manju Dominic and **Ms. Ann George** (Faculty, Department of Civil Engineering, along with UG students **Akshaya S., Anakha S. Chandran,** and **Megha S. Shibu** (S8 CE2, 2020–24 batch), presented a conference paper titled "Comparative Study of UHPC and PCC Rigid Pavement using Finite Element Analysis" at the International Conference on Innovative Trends in Engineering for Sustainability (ICITES-2025). The event was organized by the Department of Civil Engineering, Toc H Institute of Science and Technology (TIST), and held from 02 to 04 April 2025.

SHORT TERM TRAINING PROGRAMME

The inauguration of the Short Term Training Programme (STTP) on "Bridging Civil Engineering and AI: From Basics to Advanced Applications" was held on 9 June 2025, at Laurie



Baker Seminar Hall, Department of Civil Engineering. The session commenced with a welcome address by the Organising Chair, **Dr. Jisha S. V.**, Associate Professor and Head, Department of Civil Engineering. **Ms. Ansu Mathew**, Assistant Professor and Coordinator of the STTP, presented an overview of the Training Programme. The Presidential Address was delivered by **Dr. S. Viswanatha Rao**, Principal. The ceremonial lighting of the lamp was followed by the inaugural address delivered by the Chief Guest, **Dr. Bejoy Abraham**, Joint Director (Academic) of APJ Abdul Kalam Technological University. **Rev. Fr. John Varghese Palanikunnathil**, Director, felicitated and honoured the Chief Guest. The session concluded with a vote of thanks by **Ms. Rintu Johnson**, Assistant Professor and Coordinator of the STTP.

FIVE DAY YOGA TRAINING PROGRAM



The Departments of Civil Engineering and the Department of Physical Education, in association with Inzio Yoga and Wellness Studio, jointly organised a 5-day Yoga Training Program at MBCET for the first-year and second-year students of the 2023 Scheme. The program was conducted from 16 to 20 June 2025 at the Amenity Centre. This initiative is part of INZIO and aims to promote physical and mental wellness among students. 35 students participated in the event. The program was coordinated by faculty coordinators **Dr. Archana J. Satheesh**, **Ms. Nimisha Anna Jacob** of the Department of Civil Engineering and **Dr. Deepak Raj** of the Department of Physical Education. The Student Coordinator of the event was **Kiran Biju S7 CSE1**.

BIM IN CIVIL ENGINEERING- SDP FOR S3 CE STUDENTS

A Skill development program on BIM, has been organized in the Department of Civil Engineering, for S3 CE students. The SDP is scheduled for 5 days from 16 to 20 June 2025. 45 students have registered and attended the same. The coordinators: **Dr. Anupama Krishna D.** and **Ms. Diana Alice Sugunan**, Asst. Professors in CE.

EXPERT TALK

The Department of Civil Engineering in association with CESA organized an invited lecture on "Intellectual Property Rights: Safeguarding

Innovation” for the students of Semester 3 on 31 July 2025. The resource person was **Adv. Reeya Susan John**, Assistant Professor, Mar Gregorios College of Law, Nalanchira. 64 students attended the talk. **Faculty Coordinators: Ms. Radhika P., Mr. Divyaprasad S. P.**, Assistant Professors in CE.

CAREER GUIDANCE TALK



The Civil Engineering Students Association (CESA) of the Department of Civil Engineering organized an informative session on “Career Opportunities in the Public Sector” for S7 students on 28 July 2025. The event was held in collaboration with Civilianz, a reputed coaching institute specializing in PSC and other government sector examinations. The session was led by **Mr. Gokul Ramanan**, Architect and Assistant Professor, who served as the resource person. 57 students participated.

HIGHER STUDIES OPTIONS FOR BUDDING CIVIL ENGINEERS

The Civil Engineering Students Association (CESA), conducted a session on “Higher Studies Options for Budding Civil Engineers” for seventh-semester students on 29 July 2025, in association with ACE Hyderabad. 65 students attended the session.

ENGINEERS DAY 2025 – CESA ACTIVITIES

On 15 September 2025, the Civil Engineering Students Association (CESA) celebrated Engineers Day with an Expert Talk, Quiz Competition, and Poster Presentation. **Er. Anwar Hussain** delivered an expert talk on “Retrofitting of Concrete Structures” for S5 CE1 and CE2 students. The Built-to-Quiz Competition was held in two rounds, with prizes sponsored by Civilians. Winners were awarded.



ENGINEERS DAY CELEBRATION

As part of Engineers’ Day, The ASCE Students Chapter of MBCET organized a session on 15th September with our alumnus **Mr. Swaroop Krishna** (Batch 2005–2009), currently working as a Software Development Engineer at the Royal Bank of Canada as the guest speaker.



CIVIL ENGINEERING DEPARTMENT, MBCET AT ENGINEERS’ DAY CELEBRATIONS BY EFKWA



The Civil Engineering Department of MBCET participated in the *Engineers’ Day 2025* celebrations organized by the Engineers’ Federation of Kerala Water Authority (EFKWA) on 17 September 2025 at Jalabhavan, Thiruvananthapuram. The event featured addresses by **Sri. P. B. Nooh** IAS, Managing Director, KWA, **Sri. M. C. Dathan**, Padma Shri Awardee and former ISRO Director, and an invited talk by **Dr. Achuthsankar** on “Deep Tech & Engineering Excellence: Driving India’s Techade.” The logo of *Smart H₂O Hackathon*, was also unveiled.

RESIDENTIAL BUILDING SITE, PERUMATHURA

A site visit was conducted on 4 July 2025 by Civil Engineering students, accompanied by faculty members **Ms. Bindu Biju** and **Ms. Archana J. Sathesh**, to a residential building under construction at Perumathura to study the application of Glass Fiber Reinforced Concrete (GFRC) in coastal construction.

SITE VISIT AT VARKALA

On 13 September 2025, S5CE1 and S5CE2 students of the Civil Engineering Department, visited the Sivagiri Convention Centre, Varkala, as part of the DRCS course, organized in association with the Builders Association of India (BAI). Guided by **Varghese Mathew V.**, Chairman of BAI, students studied slab, beam, concealed beam, and column detailing with emphasis on reinforcement, curing, and structural stability. Accompanied by Faculty Members **Ms. Bindu Biju** and **Dr. Jisha S. V.**, 60 students gained practical exposure.



SITE VISIT AT ST MARY’S MALANKARA MAJOR SEMINARY

As part of the S5 DRCS (Design of Reinforced Concrete Structures) course, CESA (Civil Engineering Students Association), Department of Civil Engineering, organized a site visit to St. Mary’s Malankara Major Seminary on 15 September 2025 to observe the ongoing extension



work of a single-storeyed building. 62 students from S5 CE1 and CE2 attended the visit, accompanied by Faculty Members Bindu Biju and Dr. Archana J. Satheesh, Asst. Profs. in CE.

**NEW FRONTIERS ON PHYSICAL MODELLING OF
GEOTECHNICAL INFRASTRUCTURE
STRUCTURES AND
8TH PROF. T. S. RAMANATHA AYYAR LECTURE
(TSR LECTURE) 2025**



The Department of Civil Engineering, in association with the Indian Geotechnical Society (IGS), Thiruvananthapuram Chapter, and Technical Committee TC 104 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), organized a one-day international seminar on “New Frontiers on Physical Modelling of Geotechnical Infrastructure Structures” on 19 September 2025, along with the 8th Prof. T. S. Ramanatha Ayyar Lecture. The inaugural ceremony commenced with a welcome address by **Dr. Jisha S. V.** (Associate Professor and Head of the Civil Engineering Department), followed by the presidential address delivered by **Dr. S. Viswanatha Rao** (Principal). The dignitaries then joined together in the ceremonial lighting of the lamp, formally marking the beginning of the event. **Smt. Mini Antony IAS** (Additional Chief Executive Officer of KIIIFB) delivered the inaugural address, while the keynote address was presented by **Prof. B. V. S. Viswanadham** (IIT Bombay). **Dr. K. Balan**, (Founder Chairman of the IGS Thiruvananthapuram Chapter) offered felicitations and **Fr. John Varghese Palanilkunnathil** (Director of MBCET), honored the distinguished guests for their gracious presence. The ceremony concluded with a vote of thanks by **Ms. Diana Alice Sugunan** (Assistant Professor in the Civil Engineering Department) and on this occasion, the new leadership of the IGS Thiruvananthapuram Chapter for 2025–2026 was also formally introduced. The seminar was attended by participants, comprising 35 internal and 54 external attendees, among whom 10 joined through the online mode. The program was coordinated by **Dr. Jisha S. V** and **Ms. Diana Alice Sugunan**. The technical program consisted of four sessions delivered by eminent experts in the field: 1). Dr. Srinivas Mantrala (IIT Kanpur) – Geotechnical and Engineering Challenges in Chenab Bridge Construction. 2). Prof. B. V. S. Viswanadham (IIT Bombay) – Studies on the

Performance of Geostructures Subjected to Climatic Effects in a Geotechnical Centrifuge. 3). **Prof. Ashish Juneja** (IIT Bombay) – Centrifuge Modelling of Ground Movement due to Tunnelling. 4). Prof. Stuart Haigh (University of Cambridge) – Centrifuge Testing in the Mobilizable Strength Design of Retaining Walls. The event served as an excellent platform for knowledge sharing and highlighted the vital role of physical modelling in advancing modern Geotechnical Engineering practice.

**SITE VISIT AT ST MARY'S MALANKARA
MAJOR SEMINARY**

17 first-year M.Tech Structural Engineering students visited St. Mary's Malankara Major Seminary on 24th September as part of their academic enrichment activities. The visit was coordinated by **Dr S. Jayasree**, who guided the students in observing and understanding the column details and structural features of the site.



SITE VISIT



The MBCET students chapter of ASCE, in association with CESA (Civil Engineering Students Association), organised a one-day site visit on September 18, 2025, to a warehouse in Attakulangara and a Multi-Level Car Parking (MLCP) near the rear gate of Central Railway Station, Thiruvananthapuram. The primary objective of the visit was to connect classroom knowledge of steel and structural design with real-world construction practices. The beneficiaries were S7 B.Tech Civil Engineering and M.Tech Structural Engineering students. Faculty supervisors **Dr. Jisha S. V.** and **Dr. Anupama Krishna D.** accompanied the students.

MIX DESIGN WORKSHOP

The Department of Civil Engineering, in association with the Indian Concrete Institute (ICI) and UltraTech Cement Ltd, organized a Mix Design Workshop on 20 September



2025 at Laurie Baker Hall. This workshop provided hands-on training on concrete mix proportioning. The Resource Person was **Er. Rajilesh K.**, TTSM, UltraTech Cement Ltd. The event was coordinated by **Dr. Archana J. Satheesh**, Asst Professor, dept of civil engineering. The session had over 25 participants, including engineers from PWD, Irrigation Dept, UG and PG students.

PARTICIPATION IN CONFLUENCE 2.0 – ACADEMIA-CXO ROUNDTABLE

Dr. Manju Dominic represented MBCET at *Confluence 2.0 – Academia-CXO Roundtable* held at Rajagiri School of Engineering & Technology (RSET) on 27th September 2025. The event brought together academic leaders and industry executives to deliberate on strengthening academia-industry collaboration.



SITE VISIT TO ARUVIKKARA WATER TREATMENT PLANT

The S5 Civil Engineering students visited the Aruvikkara Water Treatment Plant on 27 September 2025 as part of their curriculum to gain practical exposure to water treatment processes. The program was organized by the faculties Ms. Nimisha Anna Jacob, Ms. Rintu Johnson and Dr. Jaya S. Pillai.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWLY JOINED FACULTY

The following staff members joined the Department of CSE.



Ms. Rini Vijayan
Asst. Prof.



Ms. Indu V.
Asst. Prof.



Ms. Renjitha
Radhakrishnan
Asst. Prof.



Ms. Bindhya P. S.
Asst. Prof.



Ms. Anjali Devi A. J.
Asst. Prof.



Ms. Diana
Mathew
Asst. Prof.



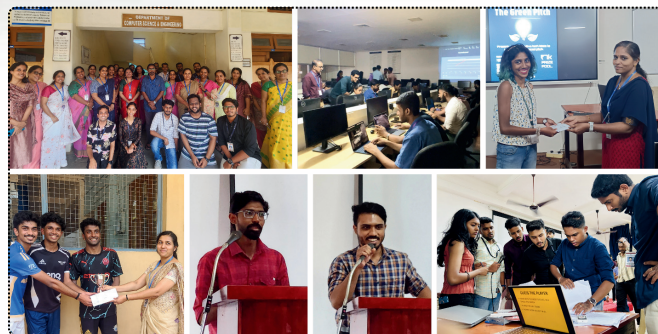
Ms. Sherly
Wilson R
(Technical Staff)

DISTINGUISHED LECTURER PROGRAM

Dr Kôiti Hasida- Director, Decentralized Big Data Team, Director, Artificial Intelligence in Society Research Group, RIKEN Center for Advanced Intelligence Project (AIP), Tokyo Japan delivered a Lecture on "Personal AI and Human-AI Collaboration" to the students of MBCET on 7 April 2025, at the Senatus Hall. RIKEN, a National Research and Development Agency, is Japan's largest comprehensive Research Institution.

HASH 2025

The Department of Computer Science and Engineering, in association with ACE and CSI MBCET, organized HASH 2025, the annual Technical Technical Fest, on 27 February 2025. The



event was inaugurated by Dr. Jisha John, HOD CSE, alongside Ms. Anjali S. (Faculty Coordinator), with Mr. Amit Rajan and Mr. Steve Waltin (Alumni 2016–20) as Chief Guests. Amuliya Kandathil (S8 CS2), Nikitha A. R. (S8 CS2), Anand Abraham (S8 CS1) and Sam Peter (S8 CS1) served as Student Co-ordinators for HASH 2025. **Capture The Flag (CTF) – Cybersecurity Challenge:** The Capture The Flag event was held at CCF, featuring a prize pool of ₹8,000. The event saw 16 teams, including 6 external teams. The event was conducted in collaboration with Mr. Jerin Manoj (Cybersecurity Professional) and coordinated by Ms. Gaurishree V. K. and Ms. Bibi Ommen, along with Nibil Mathew (S8 CS1), Vinu B. Kurup (S8 CS2), Nandu Krishna (S8 CS2), and Kiran Biju (S6 CS1) as Student Coordinators. **Eco Pitch – Sustainability Idea Presentation:** Eco Pitch took place at the AI Lab, with a prize pool of ₹7,000. The event attracted 6 teams, with 4 external teams participating. The judging panel consisted of Mr. Amit Rajan and Mr. Steve Waltin, alongside Dr. Veena Nair (S&H Department). The event was coordinated by Ms. Vinitha V. K. and Ms. Jayalekshmi as faculty coordinators, with Anand Abraham (S8 CS1), Ninan Varghese (S8 CS2), Augustine Reji (S8 CS1), and Ezek Varghese (S8 CS1) as student coordinators. **Futsal – 3v3 High-Stakes Showdown:** The Futsal event was conducted at the Volleyball Court, featuring a prize pool of ₹3,000. Teams competed in an intense 3v3 futsal tournament. 16 teams participated, with 4 external teams. The event was coordinated by Mr. Anand Haridas and Mr. Ramjith R. P. as faculty coordinators, with Abhishek P. H. (S8 CS2), Afnas (S8 CS2), Abhinav Nair (S8 CS2), Steve Santhosh (S6 CS2), and Yedukrishnan Sureshkumar (S6 CS2) as student coordinators. **IPL Auction – Strategy & Analytics Challenge:** The IPL Auction event was held at Pascal Hall, with a prize pool of ₹8,000. This event challenged participants to strategize and analyze data to build the best IPL team. 25 teams competed, including 17 external teams. The event was judged by Mr. Mahadevan and coordinated by Ms. Vijitha Robinson and Ms. Lino Zachariah as Faculty Coordinators, along with Aman Nair (S8 CS1) and John B. Varghese (S8 CS1) as Student Coordinators.

DEFINE 3.0 HACKATHON



The Department of Computer Science and Engineering hosted **DEFINE 3.0**, the third edition of its **24-hour inter-college hackathon**, as part of **HASH 2025** during **March 8-9, 2025**. This year's event attracted **123 students across 33 teams**, fostering innovation and technical excellence under the tagline **"Transforming Tomorrow, Today"** with Sustainability as the major theme. The event was inaugurated in the presence of **Dr. S. Viswanatha Rao (Principal, MBCET)** and **Dr. Jisha John (HOD, CSE Department)**, along with **Ms. Asha S** and **Mr. V. S. Shibu**, the Faculty Coordinators. **Dr. Jayanarayanan (State Program Manager, AYUSH)** and **Mr. Gilroy Mathew (SVP, Global Head of Engineering, UST)** delivered keynote addresses. Led by **Mr. Sam Peter (S8 CS1)** and **Mr. Rhon S. George (S8 CS2)**, along

with 28 organizers and volunteers, the hackathon provided a platform for students to tackle industry-sponsored challenges. After a rigorous shortlisting process, **33 teams** advanced to the final round, working intensively over **24 hours** with mentorship from Industry Professionals. The judging Panel included **Arun Chand (2006, CSE, IBS)**, **Arun Krishna (2017, CSE)**, **Martin (2017, CSE)**, **Roshan (2021, CSE)**, **Bharath (2021, CSE)**, and **Dr. Arya & Dr. Farha** from **AYUSH. Tensorz Club MBCET**, represented by **Sanna (2023, CSE)**, **Faizan (2023, EEE)**, and **Rithika (2023, EEE)**, evaluated presentation skills, with oversight from **Dr. Veena Nair (Faculty Coordinator, Tensorz Club)**. This edition introduced four tracks: **Sustainability (Open Track)** – Innovative environmental/social solutions, **AI in AYUSH (National AYUSH Mission Kerala)** – AI in traditional healthcare, **AI in Airline Operations (IBS Software)** – Aviation efficiency solutions and **AI in FinTech (Ahura Research & Innovation Labs)** – AI-driven financial technology. Sponsors: **Title Sponsor: National AYUSH Mission Kerala**, **Platinum Sponsor: UST**, **Gold Sponsors: Ahura Research & Innovation Lab, IBS Software**, **Silver Sponsors: OpsVerse.io, Federal Bank** and **Other Partners** include **MBCET Alumni Association, Devfolio, CSI MBCET**. **Grand Prize in Sustainability Track** was won by **Team: Eureka – Amrita Vishwa Vidyapeetham, Kollam**. **Teammates: Nandu Krishna,**



Rohith Pradeep, Aadarsh Mahesh, Nishtha Jain. **Prize Money: ₹20000**. The **First Runner Up in Sustainability Track Team** was won by **Team: Beyond Bytes - Government Engineering College Barton Hill**. **Teammates: Adith S, Ram Govind, Ziya Moosir, Praful CJ**. **Prize Money: ₹10000**. The **Second Runner Up in Sustainability Track Team: BBC - Big Brown Coders - Amrita Vishwa Vidyapeetham, Kollam**. **Teammates: Chinmay Ajith, Mukund Menon** **Prize Money: ₹5000**. **Freshers Prize in Sustainability Track: Team: Eureka – Amrita Vishwa Vidyapeetham, Amritapuri**. **Teammates: Nandu Krishna, Rohith Pradeep, Aadarsh Mahesh, Nishtha Jain**. **Prize Money: ₹5000**. **AI in AYUSH Track Winning Team: Neural Nexus - SIES GST College, Mumbai**. **Teammates: Aditya Sahu, Sri Rumde, Sanket Dhonde, Yash Salunke**. **Prize Money: ₹10000**. **AI in Airline Operations Track ing Team: Tesseract - Mar Baselios College of Engineering, Trivandrum**. **Teammates: Edwin Jojie, Rachel Mariam Abraham, Rishon Simon, Tanmaya Pradeep**. **Prize Money: ₹10000**. **AI in FinTech Track Winner - Special Prize Winning Team: Big Brown Coders - Amrita Vishwa Vidyapeetham, Kollam**. **Teammates: Rahul Rajesh Kumar, Sarang TS, Nikhil Mishra, Pirajesh M R**. **Prize Money: ₹5000**.

PROJECT EXPO

An exhibition showcasing projects from different departments was organized as part of the **RIKEN Collaboration** on **08 April 2025**.



VISIT TO DIGITAL UNIVERSITY

Digital University of Kerala hosted **Dr. Koiti Hasida** Director Decentralized Big Data Team & **RIKEN Center for Advanced Intelligence Project (AIP)**, Japan and **Ms. Sarada Balachandran Sumadevi**, Scientist at **RIKEN Center for Advanced Intelligence Project (AIP)**, Japan along with **Dr. Tessy Mathew**, Professor Computer Science Engineering and **Dr. Nidhi M. B.**, Professor Mechanical Engineering, MBCET.



VISIT TO NISSAN

Nissan Digital India LLP hosted **Dr. Koiti Hasida**, Director Decentralized Big Data Team & **RIKEN Center for Advanced Intelligence Project (AIP)**, Japan and **Ms. Sarada Balachandran Sumadevi**, Scientist at **RIKEN Center for Advanced Intelligence Project (AIP)**, Japan along with guests from our academic partner institute, **Dr. Tessy Mathew**, Professor Computer Science Engineering and **Dr. Nidhi M. B.**, Professor in Mechanical Engineering, MBCET.



EXPLORING GLOBAL RESEARCH FRONTIERS: OPPORTUNITIES FOR COLLABORATION WITH RIKEN

Nissan Digital India LLP hosted **Dr. Koiti Hasida**, Director Decentralized Big Data Team & RIKEN Center for Advanced Intelligence Project (AIP), Japan and **Ms. Sarada Balachandran Sumadevi**, Scientist at RIKEN Center for Advanced Intelligence Project (AIP),



Japan along with guests from our academic partner institute, **Dr. Tessa Mathew**, Professor Computer Science Engineering and **Dr. Nidhi M. B.**, Professor in Mechanical Engineering, MBCET.

CYBER FORENSICS -TECHNIQUES FOR INVESTIGATION -TALK SESSION

Department of Computer Science and Engineering in association with Alibi Global Private Limited organised a talk on **Cyber Forensic investigation tools and techniques** which on 03rd April 2025. **Dr. Sunil S P**, Director Operations Alibi Global Pvt. Ltd.



handled the session for the third year B.Tech, and first year M.Tech CSE students. Faculty Co-ordinator: **Ms. Gauri Shree V. K.**, Asst, Professor, CSE.

CONDUCTED INTERNAL HACKATHON FOR SMART INDIA HACKATHON (SIH) 2025 - PRELIMS SELECTION

The Department of CSE, in association with CSI-MBCET, ACE, and Openlabs, organized the Internal Hackathon for the selection of teams towards Preliminary Round of Smart India Hackathon (SIH) 2025. The Department of CSE, in association with CSI-MBCET, ACE, and Openlabs, organized the Internal Hackathon for the selection of teams towards Preliminary Round of Smart India Hackathon (SIH) 2025



ATTENDED CYBHER SHECURITY

Cybher Shecurity was hosted by the Women in Cyber Security Section of CDAC Thiruvananthapuram as part



of the International Women's Day Celebrations 2025. 38 selected female students from S6 CSE, ECE, and EEE (circuit branches) visited CDAC Technopark Campus and participated in the event. **Ms. Dhanya LK** and **Ms. Prathibha S Nair**, Assistant Professors, CSED accompanied the students.

FACULTY ACHIEVEMENTS

RECEIVED GOOGLE CLOUD CAREER LAUNCHPAD CERTIFICATE

Dr. Priya Mariam Raju, Assistant Professor, Dept. of CSE, received Google Cloud Career Launchpad Certificate for successfully facilitating students (S6 and S8) in Google Cloud Career Launchpad program at MBCET from September 2024 to March 2025.

CAREER LAUNCHPAD: CYBERSECURITY CERTIFICATE COURSE

The "Career Launchpad: CYBERSECURITY CERTIFICATE COURSE" is a program, which help to equip individuals with the skills and knowledge needed for entry-level cybersecurity roles, regardless of prior experience. Eighteen students from CSED successfully completed the course. The faculty coordinator was **Mr. Praveen J. S.**, CSE Department, MBCET who also received an **appreciation certificate** for successfully facilitating students in the Google Cloud Career Launchpad program at MBCET.

PARTICIPATION IN CONFERENCES/ SYMPOSIA/ WORKSHOPS/ SEMINARS

WORKSHOP ATTENDED

- Dr. Anne Dickson**, Associate professor, Department of CSE, participated in the one day workshop organized by



Intellectual Property Rights Information Centre-Kerala, patent information centre- Kerala, KSCSTE and Kerala Startup Mission on 19 August 2025 at Seminar Hall, KSCSTE, Pattom, Trivandrum.

- Dr. Anne Dickson**, Assoc. Professor, Dept. of CSE, participated in the online workshop organized in connection with IHRD THARANG 2025 held at K. Karunakaran Memorial Model Polytechnic College, Kallettumkara, on 22-2-2025 and 23-2-2025.

BEEP MASTER TRAINER'S PROGRAM

Dr. Neethu Roy, Professor & Dean (Research & Consultancy), **Dr. Manju Dominic**, Professor, CED, **Dr. Tessa Mathew**, professor, **Ms. Asha S**, Associate Professor, CSED, **Ms. Teena Rajan**, Assistant Professor, ECED, **Ms. Sheenu P**, Assistant Professor, EED, **Dr. Nidhi M B**, Professor, MED and **Dr. Suvith V S**, Assistant Professor, S&H attended one day Master Trainers' program for the Behavioural and Emotional Enrichment Program (BEEP) organised by Mar Ivanios Vidyannagar in collaboration with MBCET on 23 August 2025.

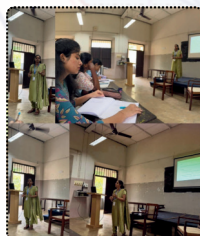
FDP ATTENDED

Dr. Priya Mariam Raju, Dr. Neena Raj N. R., Dr. Merlin George and Ms. Krishna L., Assistant Professors, Dept. of CSE, Ms. Anjali Devi A. J. (Assistant Professor, Dept. of CSE), Dr. Jesna Mohan, Associate Professor, Dept. of CSE, Dr. Tessy Mathew (Professor), Ms. Asha S. (Associate Professor), Dr. Neena Raj N. R. and Dr. Priya Mariam Raju (Assistant Professors), Dept. of CSE, Ms. Anjali Devi A. J., Asst. Prof. in CSE, Mrs. Prathibha S. Nair, Asst. Prof. in CSE, Mr. Shon J. Das & Ms. Jisha Jose, Asst. Professors, Dept. of CSE, Ms. Asha S., Associate Professor, Dept. of CSE, Mr. Anand Haridas, Asst. Professor, Dept. of CSE, Ms. Asha S., Associate Professor, CSED, Ms. Vijitha Robinson, Asst. Professor, Department of CSE, Dr. Tessy Mathew (Professor), Dr. Jisha John (Professor & HoD), Dr. Priya Mariam Raju (Asst. Professor) and Dr. Neena Raj N. R. (Asst. Professor), Dept. of CSE, Ms. Gauri Shree V. K. (Assistant Professor, CSED), Dr. Anne Dickson, Associate Professor, CSED, FDPs at different Institutions.

FACULTY INTERACTION WITH OUTSIDE WORLD**FACULTY AS RESOURCE PERSON**

- Ms. Indu V., Assistant Professor, Department of CSE, delivered a session on Universal Human Values (UHV) for the first-year students of the University College of Engineering, Kariavattom (UCEK) on 20th August 2025.

- Ms. Lino Zachariah and Dr. Neena Raj N. R., Assistant Professors, Department of CSE served as resource persons for the Short-Term Training Programme on "*Bridging Civil Engineering and AI: From Basics to Advanced*



Applications" organized by Department of Civil Engineering, Mar Baselios College of Engineering and Technology on 9 June 2025.

- Ms. Vijitha Robinson, Asst. Professor, Dept. of CSE served as a resource person for the sessions on "*Numerical methods using CPP*" for the MSc students of the Department of Physics at Mar Ivanios College, Trivandrum on, 07 May 2025.
- Ms. Jisha Jose, Assistant Professor, Department of CSE served as a resource person for the "*Familiarisation and Demonstration of 8086 Microprocessor*" sessions conducted for the fourth semester MSc Physics students of the Department of Physics, Mar Ivanios College (Autonomous), Thiruvananthapuram, on 21 and 27 March 2025.

SEMINAR ON BLOCKCHAIN IN HEALTHCARE

- Dr. Merlin George from the Department of Computer Science & Engineering led a seminar for PhD, PG, and UG students at Chanakya University, Bangalore, on 27/02/2025, titled "*When Healthcare Meets Blockchain: The Future of Secure and Smart Patient Care.*"

**SERVED AS JUDGE**

- Ms. Deepthi K. Moorthy, Assistant Professor, Department of CSE served as the Judge for the Paper Presentation hosted by Mohandas College of Engineering and Technology on 21 March 2025.

SESSION CHAIR

- Dr. Neena Raj N. R., Assistant Professor, Dept. of CSE served as Session Chair on 24 May 2025 for *6th IEEE International Conference on Control, Communication and Computing-ICCC25*, organized by College of Engineering, Trivandrum.
- Dr. Jesna Mohan, Associate Professor, Dept. of CSE served as Session Chair on 25 May 2025 for *6th IEEE International Conference on Control, Communication and Computing-ICCC25*, organized by College of Engineering, Trivandrum.

POWERTALK GUEST FOR INTERNATIONAL WOMEN'S DAY

Dr. Merlin George, Assistant Professor, Department of CSE, was a Speaker at PowerTalk 2025, hosted by Kerala Blockchain Academy on International Women's Day.

PAPER PRESENTATION

- Ms. Poorna B.R. (Assistant Professor, Dept. of CSE) and Dr. Jisha John (Professor, Dept. of CSE) presented the research paper titled "*Advanced Deep Learning Techniques for Biomedical Cell Segmentation*" at the *International Conference on Advances in Information Technology* (ICAIT 2025), held on 1st August 2025, organized by SVKM's Institute of Technology, Maharashtra.
- She presented another research paper titled "*Health care Recommender System using Machine learning*" co-authored by Dr. Jesna Mohan (Associate Professor, Dept. of CSE) and Mr. Jephin John Kutty at Third International Conference on Networks and Advances in Computational Technologies (NetACT 25) from 07 to 09 August 2025, organized by the Department of Computer Science and Engineering, MBCET.
- Ms. Maushmi Rajesh, Mr. Abid Noushad Humam, Mr. Advait Krishna Karanavar,

Mr. Salah Ahammed (2021-2025 Batch CSE) **Ms. Jisha Jose** (Asst.Professor, CSE) and Mr. Niyas Haneefa (Asst.Professor, CSE) presented a paper titled "An Integrated IoT And Chatbot Solution For Stress Management" in the NetACT25: International Conference on Networks and Advances in Computational Technologies organised by Department of Computer Science and Engineering, MBCET.

- **Mr. Aromal.M, Ms. Ananya Pramod, Ms. Bhavana.S.Moorthy, Ms. Fathima Gesny (S6 CS) and Ms. Jisha Jose** (Assistant Professor, Dept. of Computer Science and Engineering) presented a paper titled "*Alumni Connect*" in the International Conference on Future of Connected Systems – IoT, AI, and 5G (FoCS-2025) Organized by Department of Computer Science and Engineering, Department of Artificial Intelligence & Data Science, & Department of Software Engineering, at Noorul Islam Centre for Higher Education, Kumarcail, Kanyakumari, India held on May 2nd 2025.

PUBLICATIONS

PAPER PUBLICATIONS

- The paper titled "*Enhancing Stroke Recovery: Rehabilitation using MRI and Predictive modeling*" authored by **Ms. Anna G. Samuel, Ms. Angel T. John, Ms. Anna Biju Abraham, Ms. C. P. Vismaya** (2021-2025 Batch) and **Dr. Jisha John** (Professor & HoD), Department of CSE was presented in 2025 6th International Conference on Control, Communication and Computing (ICCC) and is published in IEEEExplore. doi: 10.1109/ICCC64910.2025.11077300.
- The paper titled "*Deep Learning-Based Video Anomaly Detection Using Optimised Attention-Enhanced Autoencoders*" coauthored by **Ms. Anjali S.** (Asst. Professor, Dept of CSE) is published in ELCVIA Electronic Letters on Computer Vision and Image Analysis, in May 2025.

ACCOLADES WON BY STUDENTS

BEST PAPER AWARD

- The paper titled "*Aqua Cleanse: A Smart Solution for Waterway Waste Management Using Hybrid CNN-RNN with Spatial LSTM for Multilabel Image Classification*" authored by **Mr. Abhinav Dev V. M., Mr. Karthik Raj (S7 CS1, Dept. of CSE) & Dr. Anne Dickson** (Associate Professor & A-HoD, Dept. of CSE) was presented at **RECYCLE 2025 – 5th International Conference**, hosted by IIT Guwahati on 05 and 06 June 2025, and won the **Best Research Paper Award**.



- **Ms. Sraya Sanjay, Ms. Sona S, Ms. Adwaita Raju, Mr. Aravind Biju (S6 CT) and Ms. Jisha Jose** (Assistant Professor, Department of Computer Science and Engineering) presented a paper titled "Brush or Algorithm" and received the Best Paper Award at the International Conference on Future of Connected Systems – IoT, AI, and 5G (FoCS-2025) Organized by Department of Computer Science and Engineering, Department of Artificial Intelligence & Data Science, & Department of Software Engineering, at Noorul Islam Centre for Higher Education, Kumarcail, Kanyakumari, India held on May 2nd 2025.

BEST PROJECT AWARD

Ms. Nandini Krishna R. S., Mr. Abhinav K, Mr. Ambu Bharath V. Nair, and Mr. Adwait S. Jith from S6CS2 won the BEST PROJECT AWARD in the Artificial Intelligence stream for their project titled "AI-Powered Waste Management System for Urban Environment" at SRISHTI 2025, held at Saintgits College of Engineering (Autonomous), Kottayam on February 24-25, 2025.

FUNDED PROJECT

Mr. Ashish Mohan, Mr. Jabin James, Mr. Neil John and Mr. Ritvik Jesse secured APJAKTU -CERD - Financial Assistance to project "*Hand Written Text to Braille Converter*" guided by **Dr. Neena Raj N. R.** The project aims to address the accessibility needs of individuals with visual impairments by providing a reliable and efficient method for translating handwritten materials into Braille format.

STUDENTS ATTENDED IIT GUWAHATI'S CAMPUS IMMERSION PROGRAM 2025

Ms. Anamika P (S3 CS1), Ms. Gopika Harikumar (S3 CS1), Mr. Josh Jacob Sunil (S3 CT), Mr. Milan Sojan (S3 CT), and Mr. Roshan George Jim (S3 CT), from MBCET,



proudly participated in the Campus Immersion Program held at the Indian Institute of Technology, Guwahati, from June 22 to July 1, 2025 which was jointly organized by the IEEE India Council and IAYPC 2025.

ALUMNI ACHIEVEMENTS

Ms. Meghna R Nair of 2020-2024 batch got admission for *MS Computer Science* in the *University of Southern California, Los Angeles*.



SPARSHAM OUTREACH ACTIVITIES

As part of the social outreach initiative "SPARSHAM", the Department of Computer Science and Engineering conducted a clothing donation drive for the residents of *Snehatheeram*

Care Home, Kallara. The donated items were handed over to the caretakers on April 8, 2025. Faculty



Coordinators: **Ms. Poorna B.R. & Ms. Vijitha Robinson**, Asst. Professors, CSED.

INTERNSHIP

Around 311 students successfully completed internships in reputed organizations such as UST Global, GTech MuLearn, Acsia Technologies, Verzeo, Tata Elxsi, Nissan Digital India, Quantiphi, Signify Innovations India Limited etc during the period from March 25 to September 25. The students from S7 CSE were offered internship opportunities with stipends at Nissan Digital. The department has initiated an opportunity for students to work in IIT Palakkad. Our final year students are currently doing a 6 months internship programme at different companies like Ernst and Young, IBS, Carestack, UST Global etc.

ASAP LAUNCHES IT INDUSTRY COURSE WITH SCHOLARSHIPS – MBCET STUDENTS TAKE LEAD

In a significant initiative to nurture young talent and promote IT education, **ASAP** (Additional Skill Acquisition Programme) has launched a comprehensive course on the IT industry, which commenced on May 29, 2025. This skill-enrichment program offers a holistic curriculum. The course is supported by a **75% scholarship** funded by the **Rotary Club**, benefitting **30 students**. Notably, **25 out of the 30 scholarship recipients** are students from MBCET, reflecting the institution's strong emphasis on skill development and academic excellence.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FDP ATTENDED

- **Dr M. J. Jayashree**, Dean (UG Academics) and Professor, Dept. of ECE, attended the Five days Online Faculty Development Programme on "Revolutionizing Medical Minds: Harnessing AI Tools, Emerging Trends, and Innovative Teaching Strategies" from 9 to 13 Sept. 2025 organized by Department of Biomedical Engineering, Sri Ramakrishna Engineering College, Coimbatore in association with Biomedical Engineering Society of India (BMESI).
- **Dr. Jayakumari J.**, International Liaison Officer and Professor, Dept. of ECE
 - attended FDP/Workshop on "Advances in Robotics: Real-Time Control, Applications, and Innovations" organized by Indian Institute of Information Technology, Kottayam from 26 to 30 May 2025.

- attended STTP on Coding techniques for 5G and beyond, organized by NIT Calicut from 30 June to 04 July 2025.

- **Dr. Ancy S. Anselam, Dr. Swapna P. S.**, Associate Professors, and **Dr. Lani Rachel Mathew**, Assistant Professor, Dept. of ECE participated in a Three-day FDP on "Mentoring Matters: Strategies for Effective Academic Counselling" organized by the Department of Science and Humanities, MBCET from 19 to 21 May 2025
- **Mr. Niyas K. Haneefa**, Assistant Professor, Dept. of ECE participated in an online Faculty Development Program on "Exploring IoT in the Digital Era: From Smart Devices to Intelligent Systems", Sponsored by Ministry of Electronics and Information Technology (MeitY), Government of India, organized by E & ICT Academy, NIT Warangal, in association with Indian Institute of Information Technology Kottayam (IIIT- K), Kottayam, Kerala, India from 09 to 18 June 2025.
- **Ms. Ann Mary Alex**, Assistant Professor, Dept. of ECE participated in an online Faculty Development Programme on "LaTeX for Academics: Writing, Research, and Beyond" organized by N.S.S College of Engineering, Palakkad from 10 to 12 April 2025.
- **Mr. Aravind Sarma**, Assistant Professor, Dept. of ECE Participated in Workshop on Intellectual Property Rights organized by IEEE RAS SB, MBCET on 4 April 2025.
- **Ms. Lakshmi J. L.**, Assistant Professor, Dept. of ECE Participated in Workshop on Rapid Prototyping using FPGA organized by IIIT Kottayam from 16 to 21 July 2025.

ALUMNI ACHIEVEMENT

- **Ms. Nowrin N.** (2016–2020) EC2 completed her Master's degree in Engineering Business Management from the University of Warwick, UK.
- **Ms. Anamikaa S. Nair** (2019–2023 EC1) graduated in Master of Science in Technology Management from the University of Illinois Urbana-Champaign, USA.
- **Ms Athira A. Nair** (2016-2020 EC2) graduated in Master of Science in Space Engineering from the University of Surrey, England.

ACCOLADES WON BY STAFF CERTIFICATE OF COMPLETION

Ms. Deepa P. L., Assistant Professor, Dept. of ECE, was awarded the Certificate of Completion for Malayalam translation of the course "Electromagnetic Waves in Guided and Wireless Media" offered by IIT Madras on 11 July 2025 using Machine Learning tool- Chithralekha.

PARTICIPATED AS ACADEMIC EXPERT MEMBER

Dr. Jayakumari J., Professor, Dept. of ECE and International Liaison Officer, participated as academic expert member in the second Board of Studies meeting of Department of Electronics and Communication Engineering, Stella Mary's College of Engineering (Autonomous), K. K. district, Tamil Nadu on 26 May 2025.

SESSION CHAIRED

Dr. Jayakumari J., Professor, Dept. of ECE and International Liaison Officer, delivered a keynote address entitled "Intelligent reflecting surface aided millimeter wave communication for 6G" and Chaired a Technical Session during the International Conference on Sustainable Aspects in Engineering Technology, Management and Science organized by Udaya School of Engineering, Vellamodi during 22 - 23 May 2025.

FDP/ WORKSHOP ORGANIZED WORKSHOP ON CUBESAT BOOTCAMP: FROM DESIGN TO DEPLOYMENT

The Space Club of MBCET organized a one-day workshop on Cubesat Bootcamp: From Design to Deployment on 16 September 2025 at Shannon Hall. The sessions were handled by Industry Experts from Hex20, a space startup in Technopark, Trivandrum.

FDP ON REPORT PREPARATION IN LATEX USING OVERLEAF

The Communication Research Group, Department of ECE, MBCET, organized a Faculty Development Programme (FDP) on "Report Preparation in LaTeX using Overleaf" on 20 to 21 August 2025. The programme was coordinated by **Dr. Swapna P. S.**, Associate Professor, Department of ECE, and the sessions were handled by **Mr. Niyas K. Haneefa**, Assistant Professor, Department of ECE.

WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS

A workshop on Intellectual Property Rights was organized by the IPR cell, IEEE Robotics & Automation Society and IIC, MBCET, in association with KSCSTE, PIC-Kerala & IPRIC-K on 04 April 2025 at the Senatus Hall, MBCET. The speakers were **Shri. R. S. Praveen Raj** – Senior Principal Scientist, CSIR-NIIST, **Ms. Chaithanya P. C.** – Project Scientist-I, PIC-Kerala, KSCSTE and **Shri. Anumod S.** – Examiner of Patents & Designs, IPO, Chennai. 106 students from across Departments of the college participated in the workshop. **Student Coordinators:** **Mr. Sanal Sajan E.**, S6 CS and **Mr. Festin Fleenton Pereira**, S4 EE. **Faculty Coordinators:** **Mr. Shiras S. N.**, **Dr. Lani Rachel Mathew** (Asst. Professors, ECED).

INVITED LECTURES ORGANIZED

The Department of ECE organized a one-hour career guidance session on 'Career Guidance /Higher Studies orientation session' for S5 ECE students on 5th August 2025 by **Mr. Augustine**, Senior Faculty and counsellor, TIME. **Mr. Niyas. K. Haneefa**, Assistant Professor, ECED, coordinated the session.

ACCOLADES WON BY STUDENTS (BOTH CURRICULAR & EXTRACURRICULAR)

Ms. Anagha Kuttala Radhakrishnan, S7 EC1 has been selected for six months paid internship from August 2025 to January 2026 at Naval Oceanographic and Physical Laboratory functioning under DRDO, Kochi **Adil Mohammed** S3 EC2 won the Best Delegate Award at the Trivandrum Model United Nations 2025, held on the 21st and 22nd June, 2025.

IEEE WIE SCHOLARSHIP

Gaury Manu, S7 EC1 and **Afrah Fathima A.**, S5 EC1 were awarded the IEEE WIE Scholarship 2024-25, funded by Quest Global.

THE KARMA HUNTERS OF JULY 2025

Introducing the Top XII Karma Miners of μ Learn MBCET in July 2025. **Vedha Mahadevan** (S5 CS2) leads the charts with 15222 Karma Points. Our campus also leads the Global Monthly Campus Leaderboard with a total of 1,14,220+ Karma points.



EVENING CAFE 3.0 WITH NIKHIL CHANDRAN

The Catalyst IEDC's Evening Café on 16th September 2025 featured **Mr. Nikhil Chandran**, Founder & CEO of TILTLABS, Technopark, who gave an engaging session on Gaming: The Scope & Breakthroughs. The talk highlighted how gaming, AR/VR, and immersive technologies are reshaping industries and creating exciting career opportunities. 48 participants attended the session. Student coordinator: **Mr. Agnivesh P. S.**, S5 CS. Faculty coordinators: **Dr. Lani Rachel Mathew**, **Mr. Shiras S. N.**, Asst. Professors, ECE.

IEEE SB ACTIVITY

IEEE SB, MBCET, conducted a 1-day program named Evolve 2025 on 9 August 2025. It comprised events in two parallel tracks - for Engineering students and the other for school students. The program began with an inspiring session on emerging technologies by **Mr. Nandan S.**, Secretary, IEEE India Council & IEEE Kerala Section, and Assistant Director, LBS, Trivandrum. The two-day TECHTINKER 2025 Workshop on IoT and

IEEE SB, MBCET, conducted a 1-day program named Evolve 2025 on 9 August 2025. It comprised events in two parallel tracks - for Engineering students and the other for school students. The program began with an inspiring session on emerging technologies by **Mr. Nandan S.**, Secretary, IEEE India Council & IEEE Kerala Section, and Assistant Director, LBS, Trivandrum. The two-day TECHTINKER 2025 Workshop on IoT and Hardware Essentials, held in conjunction with IEEE EVOLVE, concluded on 10 August 2025 at MBCET. Twenty enthusiastic school students from classes 8 to 12, representing various schools across Trivandrum, including St. Thomas Central School, Sarvodaya Central Vidyalaya, Model Boys' HSS, St. Thomas Residential School, Lecole Chempaka International, St. Marys HSS, St. John's Model HSS and Kendriya Vidyalaya, Pattom, actively participated in the event. Students were introduced to the fundamentals of electronics and sensors, before moving on to engaging, hands-on activities.

IEEE SPS ACTIVITY

The IEEE Signal Processing Student Branch Chapter, in association with the Signal Processing Research Group of the ECE Department, jointly organized a workshop titled "Hands-on ML with Orange" on 02 August 2025. 53 students participated in the workshop. Resource Person: **Ms. Deepa P. L.**, Assistant Professor, ECE Department Coordinator: **Mr. Anoop K. Johnson**, Assistant Professor, ECE Department.



ACCESSABILITY: TECHNOLOGY FOR INCLUSION

A session by experts from National Institute of Speech and Hearing (NISH) on how technology can enhance accessibility was organized by the Assistive Technology Group, MBCET, in association with IEEE EMBS SBC on 04 April 2025 at Faraday Hall. The sessions were handled by **Mr. R. Deepu Raj**, Senior Engineer, CATI, NISH, **Mr. Amith G. Nair**, Principal Co-Investigator, NCAHT, NISH and **Ms. Arya M. S.**, Project Research Scientist, NCAHT, NISH. 29 students of S2 and S4 from various departments of the college participated. Student Coordinator: **Mr. Gokulraj R.**, S6 EC, Faculty Coordinators: **Dr. Shalu George** (Associate Professor, EED) and **Ms. Amritha B. J.** (Asst. Professor, ECD).

GLASS PAINTING WORKSHOP ORGANISED

IEEE MBCET EMBS WiBE (Women in Biomedical Engineering) and Assistive Technology Group, MBCET, hosted a digital detox initiative called "Disconnect to Reconnect: Glass Painting Edition" on 28 August 2025. The Glass Painting Workshop was mentored by **Ms. Simla Balasubramanian**,



Alumnus, EEE Dept. (2009-13 batch). The event took place at Chempakassery, Trivandrum. Nine enthusiastic students from various departments and semesters attended the event. Student coordinators: **Agila Benedict** (S3 CSE) and **Gokul Raj R.** (S7 ECE). Faculty coordinators: **Ms. Amritha B. J.** and **Dr. Lani Rachel Mathew**, Asst. Professors, ECED.

PUBLICATIONS

CONFERENCES

- **Dr. Ancy S. Anselam**, Associate Professor, Dept of ECE, presented paper titled Anatomically-Aware Deep Learning for Medical Imaging: Hybrid GAN-Diffusion Framework for CT Image Synthesis from MRI and PET in the 2nd International Conference on Advancements in Power, Communication and Intelligent systems at GCE, Kannur, Kerala from 27 - 28th June 2025.
- **Abhinand Sivarajan Pillai**, **Naveen S.** and **Dr. M. J. Jayashree**, Professor, Department of ECE and Dean (UG Academics) presented a paper titled "Automatic Vehicle Control Using Visible Light Communication" in the 11th International Conference on Smart Computing and Communications (ICSCC) held at Muthoot Institute of Technology and Science from July 3 - 5, 2025.
- **Ananya Prasad**, **Carina Miriam Sedric**, **Gowri Krishnan L.**, **Parvathy A.** and **Varsha S. R.** and **Dr. M. J. Jayashree**, Professor, Department of ECE and Dean UG Academics presented a paper titled, "ALERT SYSTEM USING VIBROTACTILE TECHNOLOGY FOR HEARING IMPAIRED" in the 6th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2025) scheduled at Tirunelveli from June 17-19, 2025.
- **Ms. Teena Rajan**, Asst. Professor, Dept. of ECE, presented a paper titled 'Performance Evaluation of Knitted Fabric Based Electrodes for Wearable Applications' in the 2nd International Conference on Advancements in Power, Communication and Intelligent Systems (APCI 2025), organized by the Government College of Engineering Kannur, Kerala, from 27 to 28 June 2025.

- **Abel T. Shine, Ajin Santhosh, Gokul Krishna S. B. and Lakshmi J. L.**, Assistant Professor, Department of ECE, presented paper titled “Autonomous Fire Fighting Drone for Fire Detection and Suppression” in the 7th International Conference on Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA 2025) at FISAT, Angamaly, Kerala from 18-19th July.

JOURNAL

Lakshmi, J. L., Asst. Prof, **Jayakumari J.**, Professor & International liaison officer, dept. of ECE, Optimized Belief Propagation Decoder Using One's Complement Processing Element for Polar Codes in 5G NR. Natl. Acad. Sci. Lett. (2025, SCIE Indexed).

PROJECTS /CONSULTANCY WORKS

Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Year of Award	Funds provided	Duration of the project
Dr. Jayakumari J. Dr. Sreedevi P. Ms. Teena Rajan, Mr. Shiras S. N.	UNIVERSITI TEKNOLOGI MALAYSIA	2023	\$ 10000 (Rs.8.2 Lakhs)	Two years
Ms. Amritha B. J. (PI), Dr. M. J. Jayashree (Co-PI)	CERD KTU funding (Student project)	2025	Rs. 20,100/-	One year

DEPARTMENT ASSOCIATION (E-NIX) ACTIVITIES

PROJECT EXPO - PROX

E-NIX, the electronics association of MBCET, organized ProX - the final year project expo, on 28th March 2025, in the Department of ECE.



The exhibition showcased the ingenious projects developed by the final year students of Dept. The exhibited projects were evaluated by our Chief Guest, **Mr. Nandan S.**, Assistant Director, LBS Centre for Science and Technology, Trivandrum | Secretary, IEEE India Council & IEEE Kerala Section. Faculty Coordinators: **Dr. Swapna P. S. & Ms. Lakshmy S.** (S8 project coordinators, ECE), Event Coordinator: **Mr. Shiras S. N.** (eNIX coordinator).

E-WAVE

The Department of Electronics and Communication Engineering at Mar Baselios College of Engineering and Technology proudly released the 11th edition of its departmental newsletter – E-WAVE on 10th July 2025.

INDUSTRY VISIT ORGANIZED

The Department of Electronics and Communication Engineering organized an industrial visit on 14 August 2025 for S5 students. Batch 1 students visited the Pallivasal Hydroelectric Power Project, while Batch 2 students



explored the Chengulam Hydroelectric Power Project. A total of 119 students, guided by Ms. Deepa PL, **Mr. Anoop K. Johnson, Mr. Jinu Baby, Ms. Amritha B. J.**, Assistant Professors, Department of ECE, actively participated in this educational trip.

NEWLY JOINED FACULTY

The following staff members joined the Department of ECE.



Mr. Alex V
Asst. Prof.



Dr. Aswathy Madhu
Asst. Prof.



Ms. Maya M. Warrior
Asst. Prof.



Ms. Hanna Lalu
Asst. Prof.

SPANDANAM ACTIVITIES

Spandanam, the social service wing of the ECE Department, conducted an activity on the occasion of school reopening and



distributed school bags (16 in number) to the children of our housekeeping staff on 30th May 2025.



Spandanam, the social service wing of the ECE department, visited Marian Play Home at Mannanthala, an institution for children requiring special care, on 17 September 2025.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

EXPERT TALK

The Research Cell of the Department of Electrical and Electronics Engineering organized a talk on “**A-Z of Publication in Journals**” on 8 August 2025. The session was delivered by **Dr. Dishore S. V.**, Assistant Professor, EED and was primarily intended for the faculty members.

MINI PROJECT PRESENTATION

As part of the elective course Modern Illumination Control in S6 of the Electrical and Computer Engineering program, a **Mini Project Presentation** was held on 26th May 2025 at Faraday Hall. The event featured innovative approaches to illumination control, with students presenting both hardware and simulation-based solutions addressing industrial and residential applications. The session was coordinated by **Ms. Revathy K P**, Assistant Professor, EED.

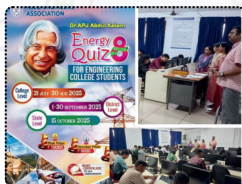
MINI PROJECT EXPO

The Department of Electrical and Electronics Engineering organized a Mini Project Expo on 24th April 2025 for the S6 EEE students, as part of the 2022 revised curriculum which introduced the Mini Project in the sixth semester. Students presented innovative hardware working models, showcasing their technical skills and creativity. The event witnessed enthusiastic participation, and two teams were jointly awarded the first prize, sponsored by Illumina. The expo was coordinated by **Mr. Midhun G.**



DR APJ ABDUL KALAM 8TH ENERGY QUIZ

The 8th Dr. APJ Abdul Kalam Energy Quiz was successfully conducted on 22 August 2025 by Illumina, EEE Department Association. With 25 enthusiastic participants, the quiz brought out the spirit of



competition and knowledge sharing. The session was led by experts from KSEB — **Er. Dhannya R (AEE)**, **Er. Pushpalatha (AEE)**, **Er. Deepika (AEE)**, and **Er. Mahesh T (AE, KSEB)**. **Sidharth Vishnu (S1 EEE)** secured the First Place, while **Abhishek A (S7 EEE)** won the Second Place.

TORCHBEARER TALKS

Alumni Affairs Cell in association with Illumina, the Association of the Department of EEE and IEEE PES conducted "Torchbearer talks: Inspiration from those who have



walked the path" by **Dr. Jinoop Narayanan**, Senior Lecturer in Mechanical Engineering, The School of Computing, Engineering and Digital Technologies, Teesside University, UK on "Dream, Do, Discover: A Journey through Higher Education and Research" for final year B. Tech students. The talk was conducted at Faraday Hall on 14 August 2025. 70 students attended. The faculty coordinators of the event were **Ms. C. Sojy Rajan**, **Mr. Midhun G.**, **Dr. Anil J.** and **Ms. Sandhya P.**

ILLUMINA - THE DEPARTMENT ASSOCIATION ACTIVITIES

HANGOUTS 2025

On 22nd August 2025, **Illumina**, the Association of the Department of Electrical and Electronics Engineering, organized Hangouts 2025, a



interactive programme to welcome the first-year EEE and EL students and help them connect with their senior peers. The event commenced with an inspiring address by **Dr. Elizabeth Varghese**, Head of the Department of EEE. This was followed by an introduction to Illumina by the Faculty Co-ordinators, **Ms. C. Sojy Rajan** and **Dr. Anil J.** about becoming part of the Illumina family. Hangouts 2025 thus succeeded in fostering a sense of belonging and camaraderie within the department.

BLOCHUB ACTIVITIES

ILLUMINA ACADEMIC EXCELLENCE

AWARD 2025 (EVEN SEM)

Illumina Academic Excellence Award was presented to toppers of each Semester who have secured highest SGPA in the previous semester. The award consists of a memento and e-certificate. This year, the event was conducted on 02 April 2025. **Dr. S. Viswanatha Rao**, Principal and **Dr. Elizabeth Varghese**, Head of the Department, distributed the awards to the toppers of each Semester. The event was anchored by **Mr. Adwaith** of S4EL. Academic Excellence Award 2025 (Even Sem) winners: **Akhil V.**, S8 EEE (S7 SGPA: 9.87), **Thamanna Prasanth**, S6 EL (S5 SGPA: 9.48), **Aaron Joseph**, S6 EEE (S5 SGPA: 9.09), **Ryan Mathew Manual**, S4 EL (S3 SGPA: 10), **Ananthakrishnan H.**, S4 EE (S3 SGPA: 9.81), **Ananthakrishnan A. A.**, S2 EEE (S1 SGPA: 9.67) and **Adwaith A.**, S2 EL (S1 SGPA: 9.61). **Ryan Mathew Manual** was also given a cash prize of Rs.500/- for securing SGPA 10. Following the prize distribution ceremony, the Principal warmly congratulated all the winners and inspired the students to strive for even greater accomplishments in the future. The HoD also commended Team Illumina for successfully organizing the event.

S8 PROJECT EXPO

The Department of Electrical and Electronics Engineering, under its association Illumina, successfully hosted the much-anticipated **Project Expo** on 28 March 2024. This exhibition of final-year projects provided students with a platform to present their innovative ideas and technological expertise. The exhibition was evaluated by **Mr. Mahesh P**, Senior Manager - R&D at Hykon India Ltd and **Dr. Remil George**, HoD, Department of Mechanical Engineering, MBCET.

WORKSHOPS, TRAININGS INDUSTRIAL VISITS AND INTERNSHIP PROGRAMMES FOR STUDENTS

INDUSTRIAL VISIT

108 students (S4 EL:56 & S5 EE:52) from Dept of EEE went for an Industrial Visit on 28 April 2025 to Idamalayar Power Station, Ernakulam



District. They were accompanied by Ms Sandhya P., Ms. Surasmi N. L., Dr. Anil J., Ms. Revathy K. P., Mr. Ayush Vijayan, Ms. Neetha Chandra, Assistant Professors, EED

EXPERT TALK

The Space Club, in association with the Department of Electrical and Electronics Engineering, organized a talk session on "Electric Propulsion



in Space: The Future of Space Travel" on 07 April 2025. The session was conducted by Dr. Manju S. Nair, Project Director of High Thrust Electric Propulsion at LPSC.

HYKON -INVITED TALK ON ELECTRIC VEHICLE DESIGN

The Department of Electrical and Electronics Engineering hosted a one-day invited talk on "Electric Vehicle Design – Basics", featuring expert speakers from Hykon India Ltd, a leading name in the field of electric vehicles and renewable energy solutions. The session was conducted by: Mr. Ajith M – Senior Engineer, R&D EV, Hykon India Ltd – Electric Vehicle Design. Mr. Mahesh P – Senior Manager, R&D, Hykon India Ltd – Power Electronics Applications. The talk offered students a practical understanding of Power Electronics and Battery Management Systems. Real-world case studies and insights from Hykon's R&D work provided students with a unique glimpse into the rapidly evolving EV industry. 26 Students from S4 and S6 Electrical and Electronics & Electrical and Computer Engineering streams attended the one-day workshop.

STUDENTS TRAINING PROGRAM ON RESPONSIBLE AI

The Mozilla Responsible Computing Challenge (RCC) team, in association with Digital University Kerala, successfully conducted a



Student Training Program on "Towards Responsible AI: Building Awareness & Promoting Responsible Usage of AI Tools" at Mar Baselios College of

Engineering and Technology (Autonomous) on 28 March 2025. The session was delivered by Dr. Sanil J., Research & Development Engineer at Digital University Kerala. The interactive session equipped S4 Electrical and Computer Engineering students, with foundational knowledge in responsible AI practices.

INVITED TALK

An invited talk on "Introduction to Vega Processors" was conducted for the second-year Electrical and Electronics (S4 EE) students. Ms. Neetha Maria, Scientist E at CDAC, Thiruvananthapuram, was the resource person.

NEWLY JOINED FACULTY

Ms. Arya Vijayan joined as Assistant Professor on 08 Sept. 2025.



Mr. Salil N. joined as Assistant Professor on 16 July 2025.



INTERACTION WITH OUTSIDE WORLD

IEEE KERALA SECTION KERALA ENGINEERING EDUCATION

ENHANCEMENT (KEEE) CONCLAVE 2025

Dr. Nisha G. K., Professor, EEE Department attended the IEEE Kerala Section Kerala Engineering Education Enhancement (KEEE) Conclave 2025 which was held on



02 August 2025 at Hotel Maurya Rajadhani, Thiruvananthapuram. The Focal theme of the conclave was Enhancing Gross Enrolment Ratio (GER) for Engineering Colleges in Kerala.

ADVANCED INTERNET OPERATIONS RESEARCH IN INDIA – 2 (AIORI-2) TRAIN THE TRAINER WORKSHOP

Dr. Nisha G. K. (Professor, EED & IQAC Coordinator) served as the coordinator for the Regional Faculty Workshop on Advanced Internet Operations Research in



India-2 (AIORI-2) – Train the Trainer Workshop held on 29th July 2025 at MBCET. This workshop was a joint initiative of the Industry Academia Young Professionals Committee (IAYPC), IEEE India Council, and the India Internet Foundation (IIFON).

FACULTY AS SESSION CHAIR

Dr. Nisha G K, Professor, EEE Department served as session chair for the International Conference on Applied Mechanics & Optimisation (ICAMeO-2025) on 29 May 2025.

EMPOWERING MINDS FOR A VIKASIT BHARATH – FACULTY PARTICIPATE IN PRESTIGIOUS NAAC ROUND TABLE CONFERENCE

As part of Janmabhumi's Grand Golden Jubilee Celebration in Thiruvananthapuram, a high-level Round Table Conference titled "Empowering Minds, Enhancing Quality for Vikasit Bharath" was held on 19 April 2025 at Udaya Suites. **Dr. Nisha G K** (Professor, EED & IQAC Coordinator) and **Ms. Deepa P. L.** (Assistant Professor, ECE) represented the college.

PAPER PRESENTATIONS

- **Dr. Nisha G. K.** (Professor, EED), **Ms. Shilpa Susan Peter** (Assistant Professor, EED), **Ms. Sandra S. R.**, **Mr. Akhil V.**, **Mr. Abhijith U.** and **Mr. Ashik S. C.** (UG Scholars) presented in the 2nd IEEE International Conference on Circuits Power and Intelligent Systems (CCPI- 2025) organized by Silicon University, Odisha on September 5-7.
- **Ms. Revathy K. P.**, Assistant Professor, in EEE, presented a paper in the conference organized by Kalasalingam Academy of Research and Education, Tamil Nadu jointly with Vidyasagar University, West Bengal during 02 to 03 August 2024.
- **Ms. Revathy K. P.**, Assistant Professors, EED presented a paper at the 6th International Conference on Data Intelligence and Cognitive Systems (ICDICI 2025) organized by SCAD College of Engineering & Technology, Tirunelveli, Tamil Nadu from 9 to 11 July 2025.
- **Dr. Nisha G. K.**, Professor, EEE Department presented three papers in the AICTE sponsored International Conference on Recent Trends in Energy, Environment, Science and Technology (CREEST- 2025) held @ UKF College of Engineering and Technology from 07 to 09 May 2025. a) **Mr. Chinmay Krishna S.**, "Artificial Intelligence: Revolutionising Electrical and Electronics Engineering". b) **Ms. Sandhya P.**, **Ms. Aiswarya S. S.**, "Mitigating Risks in EV Wireless Power Transmission through Foreign Object Detection". c) **Ms. Rinku R. S.**, **Dr. Sheryl Arulini A.**, "Review on Torque Ripple Mitigation Strategies and Fault Tolerant Control Techniques for Switched Reluctance Motor Drives".

FACULTY ACHIEVEMENTS ICONIC RESEARCHER AWARD

Dr. Dishore S.V., Assistant Professor, EED received the prestigious **Iconic Researcher Award** in Scientific Laurels for his outstanding contributions to research, innovation, and academia.



RESEARCH GRANT AWARDED UNDER KTU'S REASEARCH SEED MONEY SCHEME

Ms. Vrinda Prasad, Assistant Professor, EED has been awarded a grant of ₹90,000 by the KTU Research Section under the Research Seed Money scheme for her project proposal titled "Design and Implementation of a Soft Switching Solid State Transformer for Grid Integration of Renewable Energy" in 2024-25.

IEEE INDIA COUNCIL INDUSTRY ACADEMIA YOUNG PROFESSIONALS COMMITTEE (IAYPC) 2025

Dr. Nisha G. K. (Professor, EED & IQAC Coordinator) was selected as one of the Core Committee Members of IEEE India Council Industry Academia Young Professionals Committee (IAYPC) 2025.



RESEARCH PAPERS/PUBLICATIONS

- **Dr. Dishore S. V.**, Assistant Professor, EED published a SCI indexed paper in International transactions on Electrical Energy Systems, Wiley Publication, Q2, IF(1.9).
- **Ms. Revathy K. P.**, Assistant Professor, Department of Electrical and Electronics Engineering, published a research paper in the book A Study on Next-Generation Materials and Devices, published by Taylor and Francis (1st Edition, September 2025).
- **Dr. Dishore S. V.**, Asst. Prof., Dept. of EEE published a Scopus indexed paper in Green Industrial Electronics and Sustainable Technologies (GIEST), IEEE International Conference on 25-26 Oct 2024, indexed on 14 April 2025.
- **Ms. Shyju Susan Mathew**, Assistant Professor, EED published a paper in Journal of Robotics and Control (JRC).

WORKSHOPS & SEMINARS

SHORT TERM TRAINING PROGRAMME ORGANIZED BY FACULTY

The Department of Electrical and Electronics Engineering at MBCET conducted a Short-Term Training Program (STTP) on "Electric Mobility in Industry: Exploring the Latest Technologies and System-Level Innovations" from 09 to 14 June 2025. **57 participants**, including students, research scholars, faculty members, and professionals from various institutions and industries, attended the STTP. The program was coordinated by **Dr. Anil J** and **Dr. Sheryl Arulini**, Assistant Professors, EED.

FDP/STTPS ATTENDED

- **Ms. Sheenu P**, Assistant Professor, EED attended one day Master Trainers' program for the **Behavioural and Emotional Enrichment Program (BEEP)** organised by Mar Ivanios Vidyanagar in collaboration with MBT on 23 August 2025.
- **Dr. Dishore S. V.**, Assistant Professor, EED attended 5-days online FDP on **"Next-Generation Electrical, Engineering: Innovations in Smart Grids, Green Energy, and EV Automation"** held on 23 June 2025 to 27 June 2025, organized by E-19 (Green Energy Technologies), E-24 (Smart Grid Technologies) and E-26 (E-Mobility) Cohorts, Department of Electrical and Electronics Engineering, in association with the KLEF Academic Staff College, KLEF, GrenFields, Vaddeswaram, Guntur District, Andhra Pradesh
- **Ms. Neetha Chandran**, Assistant Professor/s, EED attended online Five-Day Faculty Development Programme organized by the Department of Mechatronics Engineering, Jyothi Engineering College from 16 June 2025 to 20 June 2025.
- **Dr. Nisha G. K.** (Professor, EED & IQAC Coordinator) participated in the 5- Days Faculty Development Programme held during 17 to 21 June 2025, organized by Department of Electrical and Electronics Engineering, St. Thomas College of Engineering and Technology, Chegannur, Alappuzha.
- **Ms. Revathy K. P., Ms. Neetha Chandran and Mr. Ayush Vijayan**, Assistant Professors, EED participated in the Five-Day Faculty Development Programme conducted from 13 to 18 June 2025 organized by Al Ameen Engineering College, Palakad, Kerala.
- **Ms. Revathy K. P. and Ms. Neetha Chandran**, Assistant Professor(s), EED completed the Faculty Development Programme organized by APJ Abdul Kalam Technological University in association with Kerala Startup Mission (KSUM) and Udhyam Learning Foundation held from 05 to 26 March 2025.

SEMINARS/WEBINARS ATTENDED

- **Ms. Neetha Chandran and Ms. Revathy K. P.**, Assistant Professors, EED participated in **a)** the Webinar on **'Communication/5G'** organized by the Department of Electronics & Telecommunication Engineering, Symbiosis Institute of Technology, Pune on 10 June, 2025. **b)** in a one-day session on **"Introduction to Python Programming for Data Science"** held on 31 May 2025, organised by ASAP Kerala as a part of Smart Learn series in association with

360DigiTMG. **c)** in the Five-Day Online Faculty Development Programme on **'Exploring AI Applications through MATLAB: From Image Processing to Generative AI'** Conducted by the Department of Artificial Intelligence and Data Science of Jyothi Engineering College in association with CoreEL Technologies, Bangalore and MathWorks from 19 to 23 May 2025. **d)** in the Webinar on "Application in Embedded Systems in Automotive Industry" organized by the Department of Electronics & Telecommunication Engineering, Symbiosis Institute of Technology, Pune on 2 June, 2025. **e)** in the Webinar on "Internet of Things (IoT)" organized by the Department of Electronics & Telecommunication Engineering, Symbiosis Institute of Technology, Pune on 6 June, 2025. **f)** attended a webinar on **"Artificial Intelligence for Electronics"** held on 10 march 2025 organized by the Electronics and Telecommunication Engineering Department, Symbiosis Institute of Technology, Pune.

- **Ms. Neetha Chandran, Ms. Revathy K. P. and Mr. Ayush Vijayan**, Assistant Professor/s, EED participated in the Webinar on **Energy Storage Devices** organized by the Department of Electronics & Telecommunication Engineering, Symbiosis Institute of Technology, Pune on 13 June, 2025.
- **Ms. Neetha Chandran**, Assistant Professor, EED, attended an online seminar on **'Deep Learning for Next-Gen Electronics'** organized by the Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune, on May 3, 2025.
- **Dr. Anil J.**, Assistant Professor, EED participated in the **Online Refresher Course for Teachers** on 30 and 31 May 2025 jointly organized Mar Theophilus Training College, Nalanchira and AIRIO Global.

FACULTY AS RESOURCE PERSONS

Dr. Anil J., Assistant Professor, Department of EEE, served as Session Chair at the 8th International Conference on Circuit, Power and Computing Technologies (ICCPCT 2025),



organized by Baslios Mathews II College of Engineering, Kollam, and Technically sponsored by the IEEE Kerala Section, held during 07 to 08 August 2025.

Dr. Soumya A. V., Associate Professor, EED served as resource person and delivered a session on "Smart Grid Implementations: Challenges, Innovations and Research Opportunities" during the Faculty Development Program on Electrical Engineering and Beyond: Research Prospects, organized by the

Department of Electrical and Electronics Engineering, Bishop Jerome Institute from 07 to 11 July 2025.

Dr. Nisha G. K., Professor, EEE Department served as Session Chair for the AICTE sponsored International Conference on Recent Trends in Energy, Environment, Science and



Technology (CREEST- 2025) held at UKF College of Engineering and Technology on 9 May 2025.

Dr. Dishore S. V., Asst. Prof., Dept. of EEE served as **Session Chair** for the International Conference on Modern Trends in Engineering and Management (ICMTEM) organised by the Department of Electrical and Electronics Engineering, Stella Mary's College of Engineering in association with AB Technologies Nagercoil on 24 April 2025

STUDENT ACHIEVEMENTS ENTE KERALAM EXPO AT KANAKAKKUNNU

As part of "Ente Keralam" programme three projects of our final year students were selected by APJKTU for exhibition on 19 May 2025.



Mr. Aswin R. B., Assistant Professor, EED and **Dr. Soumya A. V.**, Associate Professor, EED attended the expo.

IEEE AWARD

Ms. Sandra S. R., S8 EEE, has been recognized for her outstanding contributions to



IEEE activities. She has been awarded the **Best Student Volunteer and Best Chairperson of Student Branch Chapters** by the IEEE Engineering in Medicine and Biology Society (EMBS) Kerala Chapter.

STUDENTS EXCEL AT MACE MUN 2025 WITH PRESTIGIOUS AWARDS

Our students showcased exceptional diplomatic and public speaking skills at the **MACE Model United Nations (MUN) 2025**, held at MACE, Kothamangalam. Their outstanding performances earned them multiple accolades across various committees:

- **Abhav Rajit Nair (S4 EL)** – *High Commendation (DISEC)*
- **Neil Philip Koshy (S4 EL)** – *Verbal Mention (UNHRC)*
- **Jacob Cherian (S2 EE)** – *Verbal Mention (UNHRC)*
- **Elviz Mathews Olickal (S4 EL)** – *High Commendation (ECOSOC)*
- **Jithin Rajesh (S4 EL)** – *Special Mention (ECOSOC)*

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT ACTIVITIES ICAMEO 2025



An International Conference on Applied Mechanics and Optimisation (ICAMEO-2025) was held during 29 to 31 May 2025. It was organised by the Department of Mechanical Engineering in association Alumni association MBCETAA. AIP was the publishing partner for the conference. **Dr. V. Ashok**, Former Associate Director, VSSC, ISRO inaugurated the conference. **Mr. Sree Kumar V.** was the Guest of Honour and delivered the Keynote Address. Other Technical experts to deliver sessions were: **Dr. Sameen A.** (Professor, Dept of Aerospace Engineering, IIT Madras), **Dr. Abhilash Suryan** (Associate Professor, Dept of Mechanical Engineering, College of Engineering, Trivandrum), **Dr. Kinga Korniejeko** (Associate Professor, Cracow University of Technology, Poland) and **Dr. David N. V.** (Associate Professor, Universiti Teknologi Mara (UiTM) Malaysia). Out of 60 Technical Papers received, 31 papers were accepted after comprehensive peer review and 21 papers were presented. Core Team of coordinators: **Dr. Premchand V. P.** (Convenor), **Dr. Rajesh T. N.** and **Dr. Jishnu Chandran R.** (Technical Program chairs), **Dr. Remil George Thomas** (Organising chair), **Mr. Deepak B. S.** (Treasurer).

ENERGON WORKSHOP ON NUMERICAL METHODS



A five-day workshop on "Application of Numerical Methods in Diverse Mechanical Fields" was conducted for pre-final year students of the Mechanical Engineering during 11 to 16 June 2025. The workshop was part of 'Energion Series' organized by the Department of Mechanical Engineering in association with AUTOMATA and ASME Student Chapter of MBCET to enhance and apply domain knowledge using computational

tools. Expert sessions were led by **Mr. Vaishakh S. Nair**, **Dr. Jishnu Chandran R.** and **Dr. Arun M. G.**, Assistant Professors Department of Mechanical Engineering, alongside **Dr. Arun Govind Neelan A.**, a resource person with expertise in computational fluid dynamics and artificial intelligence.

ASME TREST PARK TALK ON 'EMERGING DEFENCE TECHNOLOGIES: OPPORTUNITIES'



The ASME MBCET Chapter in association with the TrEST Research Park, Kerala Startup Mission organized an Industry expert session on 'Emerging Defence Technologies: Opportunities' on 5 August 2025, at the Visveswaraya Hall of MBCET. **Prof (Dr.) Rajasree M. S.**, the CEO of TrEST Research Park and **Mr. Bobin Saji George**, Tech Lead, EV, from TrEST Research Park graced the event with their presence. Commander **(Dr) Jayakrishnan N. Nair** (Retd, Indian Naval Officer) with 25+ years of operational and administrative experience in the Indian Navy and Armed Forces, was the resource person for the session. The session had over 150 internal participants including students, faculty, and alumni from MBCET, and around 10 participants each from industry and other academic institutes.

FACULTY NEWS

Ms. Ruby Maria Syriac, Asst Professor MED has successfully completed the PG Level Advanced Certification Programme in Business Analytics (September 2024 - July 2025) organised by the Centre for Continuing

Education, Indian Institute of Science (IISc Bangalore) in association with TalentSprint.



Dr. Nidhi M. B., Professor MED delivered a session as part of a National Seminar on 'Production Engineering Reimagined: Trends innovation and opportunities' on May 3, 2025 organised by the Institute of Engineers, Kerala Chapter.

She delivered the following sessions also: On "Advancing Technologies" at CSIR NIIST on May 1 2025. : on "Towards Intelligent Systems: Recent Advances in Mechanical Engineering Research" at the 5 day FDP on 'Research Trends in Mechanical Engineering' at CCET Alappuzha on 24 July 24 2025, served as the Session Chair on the occasion of 67th National Convention of IIIE and 9th International Conference.

Dr. Nidhi M. B., Professor MED attended the 2-day virtual instructor-led training held on June 14 & 15, 2025, and completed the written assessment for the programme: Certified Specialist in Greenhouse Gas Accounting & Assurance based on ISO 14064



PUBLICATION, PAPER PRESENTATIONS

- Vivek V. Kamal et al**, "Development of novel biomaterial-based rotational triboelectric nanogenerators for wind energy harvesting", 2025 IOP Publishing Ltd, Engineering Research Express, Volume 7, Number 2. DOI 10.1088/2631-8695/adcf78
- A paper titled "Attenuation of Blast Waves Using Rigid Porous Plate Arrays: Insights from Experiments and Simulations" submitted by **Mr. Vinod V.**, Assistant Professor, MED, who is presently pursuing research as part of his PhD at IIT Hyderabad, has been accepted for publication in the prestigious Physics of Fluids Journal.
- Dr. Jishnu Chandran R.**, Assistant Professor, MED, published an article titled 'CO₂ Refrigeration Technology for India: Scope, Challenges, and Prospects' in the July, 2025 issue of the Tech magazine 'Sasthram Munnott' published by the Sasthra Vedhi.
- Nidhi M. B.** and Sreekumar R., presented a paper titled 'Integrating Blockchain for Enhanced Supply Chain Traceability and Sustainability: A Review' in 9th International Conference during 8 to 9 Aug 2025, and published in book of abstracts of AI-driven Industrial Engineering for Sustainability | ISBN: 978-93-89947-90-8 (eBook), organised by IIIE.

NEW FACULTY INCLUSION

Dr. Adarsh S. J., PhD. Area: Welding, Additive Manufacturing. PhD TOPIC: "Comparative Studies on Joining Aluminium 5754- Polyamide Hybrid Joint Using Friction Stir Welding and Laser Beam Welding" Guide: Dr Arivazhagan Natarajan, Professor (HAG), Dept of ME, VIT Vellore.

STUDENT ACHIEVEMENTS

- **Ajay Suresh B.** (S1ME) got selected to the Trivandrum Junior Boys Throwball Team as Vice-Captain. The team will compete in the 24th Kerala State Junior Throwball Championship 2025-26 from 31 August to 2 September at Mahatma Boys Higher Secondary School, Mavelikara (Alapuzha District).
- **Gowrishankar Manikandan** S5ME1 secured gold medal in Kerala State classic powerlifting championship at 105kg junior category in Kozhikode on 26 July 2025.

ALUMNI NEWS

OBITUARY - Bro. Abraham Shince OIC was an alumnus of 2014-2018 batch of ME and a member of Bethany Navajeevan Province and belongs to St. Joseph's Malankara Syrian Catholic Church, Mudiyoorkonom, he Eparchy of Mavelikkara.



DEPARTMENT OF SCIENCE AND HUMANITIES

DEPARTMENT ACTIVITIES

PAPER PUBLICATIONS

- **R. Reshma**, published a paper in Next Energy (Elsevier) (I.F-1.3), entitled "Emerging paradigms in renewable hydrogen production: Technology, challenges, and global impact", 8(100343), June-2025, doi: 10.1016/j.nxener.2025.100343.
- **Lekshmy O.**, "Synthesis and characterisation of vanillin derived Schiff base metal complex of zinc and its anti-oxidant and antifungal activity", Russian Journal of Physical chemistry B (SPRINGER), 2025, volume 19 (3), 545-551, ISSN 1990-7931.
- **Ms. Lekshmi I.** published a paper on "Empowerment Of Women in Tamil Nadu Based On Fuzzy Normalized Value Based Ranking Method" in International Journal of Environmental Sciences (SCOPUS Indexed), Elsevier, Vol.11, No. 20S, ISSN:2229-7359, 2025.
- **Steffy Maria Jose, Lakshmi J. S., Rini Varghese, Jijimon K. Thomas**, Fabrication of high-performance infrared-transparent 8YSZ nanoceramics through auto combustion powder synthesis followed by resistive-heating assisted microwave sintering (2025) doi:10.1088/1742-6596/2995/1/0120.

- **Steffy Maria Jose, Rini Varghese, Lakshmi J. S., Jijimon Kumpukattu Thomas**, 'Resistive Heating Assisted Microwave Sintering of Y2O3/Dy2O3 Nanocomposite Ceramics: Tailoring Optical Transmittance and Microhardness Properties for Infrared Transparency Applications', Transactions of the Indian Ceramic Society, 2025.DOI: <https://doi.org/10.1080/0371750X.2025.2515378>.
- **Maneesha M, Preethi P. C., Harisankar A., TG Sreeja, VK Ratheesh Kumar, Sreevidya Thekku Veedu, Resmi Raghunandan**, Engineering ZIF-67 with heteroatom-doped carbon dots for ultra-sensitive and selective detection of serum albumin in artificial body fluids, Microchemical journal (2025), <https://doi.org/10.1016/j.microc.2025.113046>.

FDP ATTENDED

- **Ms. Lekshmi I., Dr. Lakshmi J. S., Dr. Renjini M. Nair, Ms. Sabitha S. Nair, Ms. Anaswara Johny, Ms. Akhila Jose, Dr. Archana P. Das, Ms. Jisha J. J., Ms. Uma M., Ms. Syama Mohan, Ms. Sruti Janardhanan, Mr. Vinu V.** attended 3 days FDP On 'Mentoring Matters: Strategies for Effective Academic Counselling' organized by Science & Humanities Department, MBCET, TRIVANDRUM from May 19-21, 2025.
- **Dr Archana P. Das, Dr Lakshmi J. S., Dr. Preethi P. C. and Dr. Renjini M. Nair** attended
- AICTE approved 5- Day FDP on Universal Human Values II, conducted from 21 to 25 July 2025 at Mar Baselios College of Engineering and Technology (Autonomous), Thiruvananthapuram.
- **Dr. Veena Nair** participated in a 10 day online FDP "Entrepreneurship and Experiential Learning" organised in association with VTU, BMS School of Architecture, Bangalore and Wadhvani Foundation from 11th to 14th Aug & 18th to 23rd Aug (10 days).
- **Dr Lakshmi J S, Dr Preethi P C and Dr Renjini M Nair** attended an FDP on "Smart and sustainable materials: Advances in material chemistry for global challenges – 2025" organized by SRM Institute of Science and Technology, Ramapuram, Chennai in association with Society for Advancement in Chemical Sciences and Education (SACSE), IGCAR, Kalpakkam from 21st July, 2025 to 26th July, 2025 (6 days).
- **Dr. Veena Nair** attended an FDP on Engineering Entrepreneurship and IPR, organized by KTU in association with Kerala Startup Mission and Udhyam Foundation from Mar 5- 26 Mar, 2025.

WORKSHOP/FDP COORDINATED

- **Dr. Veena Nair** was the Local Programme Coordinator of the Five Days Face to Face Faculty Development Program (FDP) on Universal Human Values (UHV II) from 21st July 2025 to 25th July 2025.
- She was the Coordinator for the 11 day student internship workshop on Assistive Technology from June 9-June 20, 2025.
- **Dr. Archana P. Das** served as the Convener of the Three - day Faculty Development Program on "Mentoring Matters: Strategies for Effective Academic Counselling " organized by the Department of Science and Humanities, MBCET, Trivandrum from 19 May to 21 May, 2025.
- **Ms. Akhila K. Jose** and **Dr. Shinu Asmy** served as the coordinators of the Three - day Faculty Development Program on "Mentoring Matters: Strategies for Effective Academic Counselling " organized by the Department of Science and Humanities, MBCET from 19 to 21 May 2025.

WORKSHOPS ATTENDED

- **Dr. Preethi P. C., Dr. Renjini M. Nair and Dr. Lakshmi J. S.** attended the plenary talk on 'Emerging 2D quantum materials for brain-inspired neuromorphic computing applications' organised by the IEEE Nanotechnology Council Student Chapter, Indian Institute of Technology Indore on 12th August 2025.
- **Dr. Veena Nair** attended a one day Faculty Knowledge Sharing Program on 'Reignite the Spark: High impact Teaching Strategies that work', organized by ICFAI University on 28 June 2025. .
- **Dr. Lakshmi J. S. and Dr. Preethi P. C.** attended a talk on SHARPENING MIND POWER jointly organized by MTT College and Mental Health Action By People, Kerala Chapter on 17 July 2025.

CONFERENCES - ATTENDED

- **Ms. Lekshmi I.** attended the 2nd International Conference on Applied Mechanics and Optimization organized by the Department of Mechanical Engineering, MBCET, from 29 to 31 May 2025.

CONFERENCES- PAPERS PRESENTED

- **Ms. Lekshmi I.** presented a paper titled 'A Dam Rehabilitation Model Based on F-NoVaRM (A Case Study -Neyyar Gravity Dam, India)' in the 2nd International Conference on Applied Mechanics and Optimization which was held from 29 to 31, May 2025 organized by the Department of Mechanical Engineering.

- **Ms. Jisha J. J.** presented a paper titled "The Laplacian Energy of Divisor Graphs" in the International Conference on AI – Powered Approaches to Graph Theory and Applications (INAIGA-2025) on 28 May 2025.
- **Ms. Uma M.** presented a paper titled "The Laplacian Energy of Cayley Graphs" in the International Conference on AI – Powered Approaches to Graph Theory and Applications (INAIGA-2025) on 28 May 2025.
- **Ms. Lekshmi I.** presented a paper titled ' Fuzzy Multi-Criteria Decision Making in Sustainable Engineering' in the International Conference on Mathematics in Technology, Industry and Finance which was held from August 26-27, 2025 organized by the Department of Mathematics, Devaswom Board Pampa College, Parumana, Pathanamthitta.
- **Ms. Syama S. Mohan** presented the paper titled " Reliability Estimation of Stress-Strength Weibull Models under Step - Stress Partially Accelerated Life Testing and Threshold - Modified Stress." at the First International Conference on Emerging Trends in Applied Science, Management and Technology (ICEAMT '25) hosted by the Department of Basic Science and Humanities, Management Studies and Computer Applications, Adi Sankara Institute of Engineering and Technology, Kalady, Ernakulam, India held from July 31st to August 1st 2025.
- **Dr Preethi P. C.** presented a poster titled "Development of a 'turn-off' sensor for the detection of nitrobenzene in aqueous medium" in the CSIR-NIIST Golden Jubilee Conclave series 'New Vistas in Critical Minerals and Materials' organized by Material Science and Technology Division, CSIR-NIIST on August 01, 2025.
- **Dr Lakshmi J. S.** presented a poster titled "Synthesis and characterization of low temperature sintered Zn₂V₂O₇ ceramic for potential use as a substrate in microstrip patch antenna", in the CSIR-NIIST Golden Jubilee Conclave series 'New Vistas in Critical Minerals and Materials' organized by Material Science and Technology Division, CSIR-NIIST on August 01, 2025.
- **Dr Renjini M. Nair** presented a poster titled "Preparation and Characterization of a Polymer blend with Gum Arabic and Sodium Alginate", in the CSIR-NIIST Golden Jubilee Conclave series 'New Vistas in Critical Minerals and Materials' organized by Material Science and Technology Division, CSIR-NIIST on August 01, 2025.

DEPARTMENT OF PHYSICAL EDUCATION

HATTRICK WIN



Hattrick Win! MBCET Kabaddi Women's Team emerged third time as the Winner of the APJ AKTU A- Zone Inter Collegiate Tournament held at VKCET, Paripally.

ELECTED AS VICE - PRESIDENT TDBA

Dr. Christy Francis, Asst. Director, Dept. Physical Education has been elected as the Vice - President of the Trivandrum District Basketball Association for 5 Years (2025 to 2029).



SECOND IN 3X3 BASKETBALL CHAMPIONSHIP

Ryan Mathew Manual S5EL, Ashish E. S5CT & Rohan P. C. S5ME Represented Trivandrum District and secured Second place in the U-23 Kerala State 3x3 Basketball Championship held at RSC Kadavanthra.



BECAME RUNNERS IN BASKETBALL LEAGUE



Ryan Mathew Manual S5 EL Ashish E. S5CT, Aromal R. Chandran S5 EL & Rohan P. C. S5 ME secured Second position in the Open Men category of the Season 1 of Trivandrum Basketball League conducted by Hoops School of Basketball and Trivandrum District Basketball Association.

SECURED GOLD IN STATE POWERLIFTING CHAMPIONSHIP

Gowrishankar Manikandan of S5ME1 has secured Gold medal in the Kerala State Junior Classic Powerlifting Championship held at Kozhikode.



SECURED GOLD IN WRESTLING CHAMPIONSHIP



Aishwarya Balakrishnan Menon of S5 EC1 Secured *GOLD* Medal in the District Wrestling Championship and secured *BRONZE* in the Kerala State Under 23 Wrestling Championship conducted by Kerala Wrestling Association



SECURED MEDAL IN DISTRICT AMETURE ATHLETICS MEET

S. Kailasnath S3EEE participated in the District Ameture Athletics Meet 2025 and secured 2nd in Hammer-Throw and 3rd in Discus throw Competition.

KARATE CHAMPION

Herin Mary Tiju of S3 CT Secured Silver Medal (18+ category event Kumite +68 KG) V V Cup- open International Karate Championship held at Jimmy George Indoor Stadium, Trivandrum



YOGASANA CHAMPIONS

Anugraha S. D. (S3 CS1) Secured Gold Medal and Ananya Biju Kumar (S5EC2) Secured Bronze in the Traditional Yogasana championship and they together secured Gold Medal in the Rhythmic Pair Competition.



VICE - CAPTAIN OF DISTRICT THROW BALL TEAM

Ajay Suresh B. (S1ME) got selected to the Trivandrum Junior Boys Throwball Team as Vice Captain. The team has competed in the 24th Kerala State Championship .

VICE - CAPTAIN OF THE KABADDI UNIVERSITY TEAM

Ashna Rachel Shine of S7 CE2 has been selected as the Vice-Captain of the University Women Kabaddi team .



SECURED RUNNER UP IN SHUTTLE BADMINTON



MBCET Shuttle Badminton Women's team Secured Second position in the APJ AKTU A -Zone Inter-Collegiate tournament held at CET, Trivandrum.

PARTICIPATED IN STATE BASKETBALL CHAMPIONSHIP

Diya Vijayan V. D. S7EC2 has been selected to the Trivandrum District Senior Basketball Women team and the Tournament held at Jawahar Square, Kunnankulam, Thrissur .



A ZONE CHAMPIONS IN TABLE TENNIS



The MBCET Men's Team and Women's Team secured the Championship and Runner-Up positions, respectively, in the APJ AKTU A-Zone Inter-Collegiate Table Tennis Championship held at CET .

BAGGED THIRD IN YOGA IN THE UNIVERSITY COMPETITION



MBCET Yoga Woman team bagged Third Position in the APJAKTU Inter Zone Yogasana Championship held at St. Joseph College of Engineering and Technology, Pala.

PARTICIPATED IN STATE KARATE



Sherry Shaji Thomas of S1CT participated in the 32nd State Tournament conducted by International Karate Alliance, Kyokushin Ryu and secured 1st prize for Kata and 2nd prize for Kumite held at Pullikal, Malappuram.

REPRESENTING UNIVERSITY IN SHOOTING

Abhinav Krishna (S1 ME) has been selected to represent the APJ Abdul Kalam Technological University in the 10 meter Air Rifle Men's category for All India Inter University Shooting Championship scheduled to be held in Meerut, Uttar Pradesh . He also secured Gold Medal in the above said event in the District Competition and participated in the State Championship.



LIBRARY UPDATES

WEBINAR ON IEEE XPLORE & EBSCO E-BOOKS

MBCET Library successfully conducted a live webinar titled "**Value of IEEE Xplore and EBSCO E-Books in Project Work**" for all S7 students from the Departments of Electronics and Communication Engineering (ECE), Computer Science and Engineering (CSE), and Electrical and Electronics Engineering (EEE). The event took place in their respective seminar halls on 1 July 2025. The resource person for the session was **Mr. Nandalal TS.**, Senior Training Manager at EBSCO Information Services. The program was coordinated by the librarian, **Mr. Binu K. John** .

WEBINAR ON KNIMBUS REMOTE ACCESS

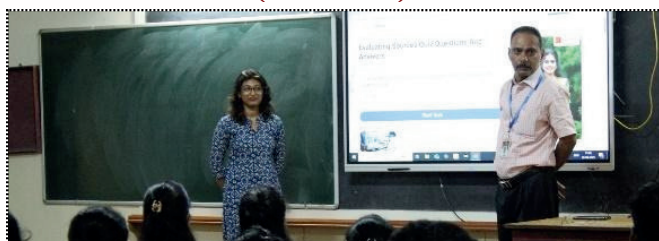
The MBCET Library conducted a live webinar for S7 Civil Engineering students on "**Smarter Access to Civil Engineering Literature: Explore, Learn, and Succeed with Knimbus Remote Access**" The session

was presented by **Mr. Manikandan Jayakrishnan**, Trainer for Knimbus Remote Access, New Delhi, on **04 July 2025**, at Laurie Baker Hall. The event was coordinated by **Mr. Binu K. John, Librarian**.

SEMINAR ON LIBRARY & E-RESOURCES

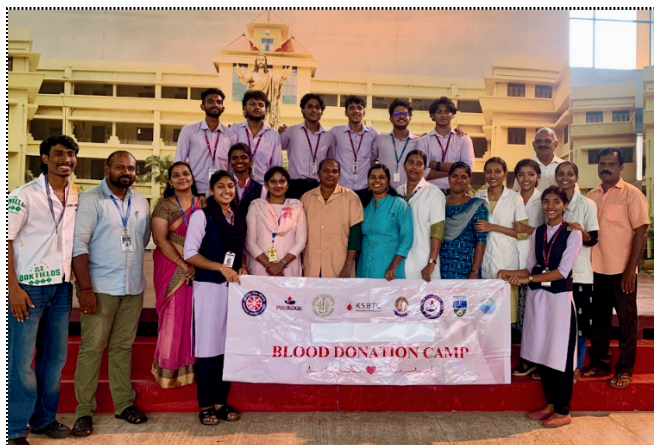
The MBCET Library conducted a seminar for S7 Civil Engineering students on "**Effective Utilization of the Library & E-Resources**" at Laurie Baker Hall on **04 July 2025**. The resource persons were **Mr. Binu K. John, Librarian**. The session was coordinated by **Mr. Sambhu B. K., Asst. Librarian**.

STUDENT INDUCTION PROGRAMME (SIP- 2025)



- As part of the Student Induction Programme (SIP- 2025), MBCET Library conducted Seminar "Know Your Library & E-Resources" – Library Orientation: A user Empowerment Initiative from 19 August 2025 to 23 August 2025 for all 11 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, Asst. Librarian**, coordinated the sessions.
- MBCET Library conducted Seminar "Know Your Library & E-Resources" – Library Orientation: A user Empowerment Initiative on 25 August 2025 at Senatus Hall for all of batches 1st year M.Tech, M1 students. **Mr. Binu K John, Librarian** was the Resource person.

NSS NEWS



The NSS Units 230 and 706 of Mar Baselios College of Engineering and Technology kickstarted with a

Mega blood donation drive Sapthadhara on 17 July 2025 coordinated by Rudhirasena MBCET. 42 students voluntarily donated blood to General Hospital, Trivandrum blood bank.

ENROLMENT AND AWARENESS

- New Volunteer Secretaries for both units were elected.
- Participation in the Regional Volunteer Secretaries' Meet at TKM Institute of Technology, Kollam, helped enhance inter-unit collaboration and leadership skills.
- Climate Action club in association with NSS arranged an introductory session on 25th July 2025 at Senatus Hall. The session was delivered by Jayakrishnan B S, CEO, C5 Foundation.



- NRPF Orientation for S5 NSS volunteers was conducted on 29th July at Faraday Hall. The session was taken by **Mr. Adithyan Ganesh, NRPF Mentor, MBCET**



- A Jamming Session was arranged at OAT as part of Anti-drug awareness campaign on 30th July 2025.



CAMPUS ENGAGEMENT AND NATIONAL EVENTS

- NSS Enrolment & Orientation Session for newly joining S3 students was organized on August 2nd at Senatus Hall. Volunteers were introduced to NSS vision, structure, and responsibilities.

- NSS Scrap Collection Week (Aug 4–8) was conducted department-wise to promote waste segregation and recycling awareness.



- Independence Day Celebration (Aug 15) included a volunteer parade, flag hoisting and cultural performances.



SOCIAL OUTREACH AND OBSERVANCES

- A short film contest was conducted on the theme Natural Resource Protection by NRPF, MBCET from 31st August to 8th September.
- Engineer's Day (Sept 15) was marked with an alumni talk on Engineering for Society Good: Technology with Humanity and an essay writing competition.
- Energy cell of NSS MBCET presented an Energy Quiz on the topic: Assess your understanding of Energy, sustainability and the technological innovations driving a sustainable future on 21st September 2025 in online mode.
- Energy cell MBCET also presented an awareness session on smart energy use with a focus on Home energy audit "Spark the change" on 26th September 2025. Ms. Revathy K P delivered the session online.
- On NSS day 24th September 2025, NSS MBCET announced the winners in the short film contest conducted on August 2025. **Mr. Navaneeth SICT** for his movie Valayam scored the winning prize. **Samuel Mathew**

Cyriac S3CT earned the 1st prize and **Riya Rachel S3EC2** secured the 2nd prize for the essay writing competition conducted on September 15th. The Energy Quiz winners were **Gokul Jayan, S5CT** (1st position), **Karthik S., S5CT** (2nd Position) and **Aaron V. K., S5CT** (3rd Position). All the awardees were given Cash prizes on the prestigious day.



- On 25th September 2025, A NRPF Orientation was conducted for S5 volunteers at Shannon hall. The session was delivered by Ms. R Smriti, Regional Coordinator, NRPF.

PLACEMENT UPDATES

Placemetn And Internship offers April - Sept 2025

Equifax	12
Quantiphi	6
EY-GDS	14
Mitsogo	2
Acsia (Internship)	3
SACOM Technologies (Internship)	2
Nissan Digital (Internship)	11
DRDO (Internship)	1



He left us early



College code MBT

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COURSES OFFERED

B.Tech Programmes

B.Tech Civil Engineering.	120 seats
B.Tech Computer Science and Engineering.	120 seats
B.Tech Electronics and Communication Engineering.	120 seats
B.Tech Electrical and Electronics Engineering.	60 seats
B.Tech Mechanical Engineering.	90 seats

New B.Tech Programmes started in 2022

B.Tech Computer Science and Engineering(Artificial Intelligence).
B.Tech Electrical and Computer Engineering.

M.Tech Programmes

M.Tech Computer Science and Engineering.	18 seats
M.Tech IoT and Sensor Systems.	18 seats
M.Tech Machine Design.	18 seats
M.Tech Power Control and Drives.	09 seats
M.Tech Structural Engineering.	18 seats
M.Tech Transportation Engineering.	18 seats
M.Tech Environmental Science and Engineering.	18 seats

New M.Tech Programme started in 2024

M.Tech Environmental Science and Engineering.

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