MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY
— AUTONOMOUS —

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

Department Bulletin

VISION

To be a Centre of Excellence in Computer Science and Engineering providing quality education and research for the betterment of the society.

MISSION

To impart sound knowledge in theoretical and applied foundations of Computer Science and Engineering, and to train the students to solve real life issues to effectively define and shape life.

ECOCANVAS – CANVAS OF CHANGE, COLORS OF HOPE

The CSI Student Branch of MBCET and the Department of CSE organized **EcoCanvas, an online poster-making contest** held from 5th to 13th June 2025 on the theme "Blending Nature with Innovation." The event witnessed a wave of creativity, with students showcasing their talents through both digital and hand-drawn artworks.

Winners:
- GreenBrush Laureate (Hand-drawn)
  - 1st Prize: **Mr. Avin Joy (S4 CS)**
  - 2nd Prize: **Ms. Devika D V (S2 CE)**
- GreenPixel Maestro (Digital)
  - 1st Prize: **Mr. Josh Jacob Sunil (S2 CT)**
  - 2nd Prize: **Ms. Vedha Mahadevan (S4 CS)**

PAPER PUBLICATION

- The research paper titled "*Deep Learning-Based Video Anomaly Detection Using Optimised Attention-Enhanced Autoencoders*", co-authored by **Ms. Anjali S**. (Assistant Professor, Department of CSE), was published in ELCVIA – Electronic Letters on Computer Vision and Image Analysis in May 2025.

- 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 at the 2025 6th International Conference on Control, Communication and Computing (ICCC) and published in IEEE Xplore (DOI: 10.1109/ICCC64910.2025.11077300).

FACULTIES AS RESOURCE PERSON

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 the Department of Civil Engineering, Mar Baselios College of Engineering and Technology, on 9th June 2025.

BOOK PUBLICATION

Ms. Prathibha S. Nair and Ms. Anjali S., Assistant Professors, Department of CSE, co-authored a book titled "Artificial Intelligence and Data Science", published on 22nd July 2025 (ISBN: 978-93-343-5766-0).

MS. PRATHIBHA S. NAIR   MS. ANJALI S.

HARITHAM LAHARI RAHITHAM: AN AWARENESS INITIATIVE ON NATURE AND DRUG PREVENTION

The Anti-Narcotic Cell of Mar Baselios College of Engineering and Technology, in collaboration with the Kerala State Excise Department, organized "*Haritham Lahari Rahitham*" in observance of World Nature Conservation Day.

The program was inaugurated by **Mr. Radhakishnan B,** South Zone Joint Excise Commissioner, with the Presidential Address delivered by **Rev. Fr. John Varghese**, Director, MBCET.

An interactive session with students was led by **Mr. Shibu P. L (Deputy Excise Commissioner)** and **Ms. Jyothi Rachel Varghese (Agronomist, Vellanad).** The event commenced with a welcome address by **Mr. Santhosh Kumar S. K., Assistant Excise Commissioner.**

An anti-drug pledge was administered by Mr. Vignesh Vishwanath, District Coordinator, Vimukthi Mission. Felicitations were delivered by **Mr. Ramjith R. P**. and **Mr. Vinu V., A**ssistant Professors, MBCET. The program concluded with a vote of thanks by **Mr. Sajith Kumar G. S., Excise Inspector.**

The session witnessed enthusiastic participation from students of various colleges, reinforcing the twin messages of environmental conservation and drug prevention.

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

In a significant initiative to nurture young talent and promote IT education, the Additional Skill Acquisition Programme (ASAP) launched a comprehensive course on the IT industry, commencing on 29th May 2025.

The curriculum offers a holistic blend of learning, covering programming fundamentals, web development (front-end and back-end), database management, emerging technological trends, software development life cycles, project management tools, version control systems, and the basics of cybersecurity.

The programme is supported by a 75% scholarship funded by the Rotary Club, benefitting 30 students. Notably, 25 of these students are from Mar Baselios College of Engineering and Technology (MBCET), reflecting the institution's strong focus on skill development and academic excellence.

Delivered in a hybrid mode, the course combines the flexibility of remote learning with the benefits of in-person mentorship and peer collaboration, ensuring both accessibility and quality of instruction.

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 Mar Baselios College of Engineering and Technology (Autonomous), Thiruvananthapuram, participated in the Campus Immersion Program held at the Indian Institute of Technology, Guwahati, from 22nd June to 1st July 2025.

Jointly organized by the IEEE India Council and IAYPC 2025, the program served as a transformative platform, offering valuable insights into emerging technologies, fostering leadership skills, and enabling meaningful collaboration with talented peers from across the nation.

SERVED AS SESSION CHAIRS

- **Dr. Neena Raj N. R.,** Assistant Professor, Department of CSE, served as Session Chair on 24th May 2025 at the 6th IEEE International Conference on Control, Communication and Computing (ICCC25), organized by the College of Engineering, Trivandrum.

- **Dr Jesna Mohan** Associate Professor, Department of CSE, served as Session Chair on 25th May 2025 at the 6th IEEE International Conference on Control, Communication and Computing (ICCC25), organized by the College of Engineering, Trivandrum.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

- **Dr. Neena Raj N. R. and Dr. Priya Mariam Raju,** Assistant Professors, Department of CSE, attended a Faculty Development Programme on "*Microsoft Power BI*", organized by the Human Resource Development Centre of APJ Abdul Kalam Technological University (KTU) and NeST Digital Academy, from 9th to 11th June 2025.

- **Ms. Anjali Devi A. J.,** Assistant Professor, Department of CSE, attended an online National Level Faculty Development Programme on "*Next Gen Deep Learning: From Foundational Concepts to Applied Intelligence*", organized by the Department of CSE, Mar Ephraem College of Engineering and Technology, from 14th to 18th July 2025.

- **Ms. Anjali Devi A. J.**, Assistant Professor, Department of CSE, attended an online Faculty Development Programme on "**Prompt Engineering and ChatGPT Utilisation**", organized by KKR & KSR Institute of Technology and Science in association with Techno Future India, held from 14th to 19th July 2025.

- **Mr. Shon J. Das and Ms. Jisha Jose**, Assistant Professors, Department of CSE, successfully completed a Faculty Development Programme on "*Exploring IoT in the Digital Era: From Smart Devices to Intelligent Systems*", organized by the ICT Academy, NIT Warangal, in association with the Indian Institute of Information Technology, Kottayam (IIIT-K), and sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, from 9th to 18th June 2025.

- **Mr. Anand Haridas**, Assistant Professor, Department of CSE, successfully completed a Faculty Development Programme on "*Inculcating Universal Human Values in Technical Education*", organized by the All India Council for Technical Education (AICTE), from 14th to 18th April 2025.

- **Ms. Asha S**, Associate Professor, Department of CSE, attended an online Faculty Development Programme on "*Microsoft Power BI*"**,** organized jointly by the Human Resource Development Centre (HRDC) of APJ Abdul Kalam Technological University (KTU) and NeST Digital Academy, held from 9th to 11th June 2025.

- **Mentoring Matters: Strategies for Effective Academic Counselling**

Ms. Asha S., Associate Professor, Department of CSE, attended a three-day Faculty Development Programme on "*Mentoring Matters: Strategies for Effective Academic Counselling*", organized by the Department of Science and Humanities, MBCET, from 19th to 21st May 2025.

- **Microsoft Power BI**

Dr. Tessy Mathew, Professor, Department of CSE, attended a Faculty Development Programme on "*Microsoft Power BI*", organized by the Human Resource Development Centre of APJ Abdul Kalam Technological University (KTU) in collaboration with NeST Digital Academy, from 9th to 11th June 2025.

- **Dr. Jesna Mohan**, Associate Professor, Department of CSE, attended a six-day Workshop-cum-Faculty Development Programme on "*Geospatial Data: Tools, Techniques and Applications*", organized by the Department of Computer Science and Engineering and CSE–Cyber Security, Indian Institute of Information Technology (IIIT) Kottayam, from 23rd to 28th June 2025.

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) and Dr. Anne Dickson (Associate Professor & A-HoD, Dept. of CSE)**, was presented at RECYCLE 2025 – 5th International Conference, hosted by IIT Guwahati on 5th and 6th June 2025, and was honored with the Best Research Paper Award.

NEWLY JOINED FACULTY

Ms. Rini Vijayan
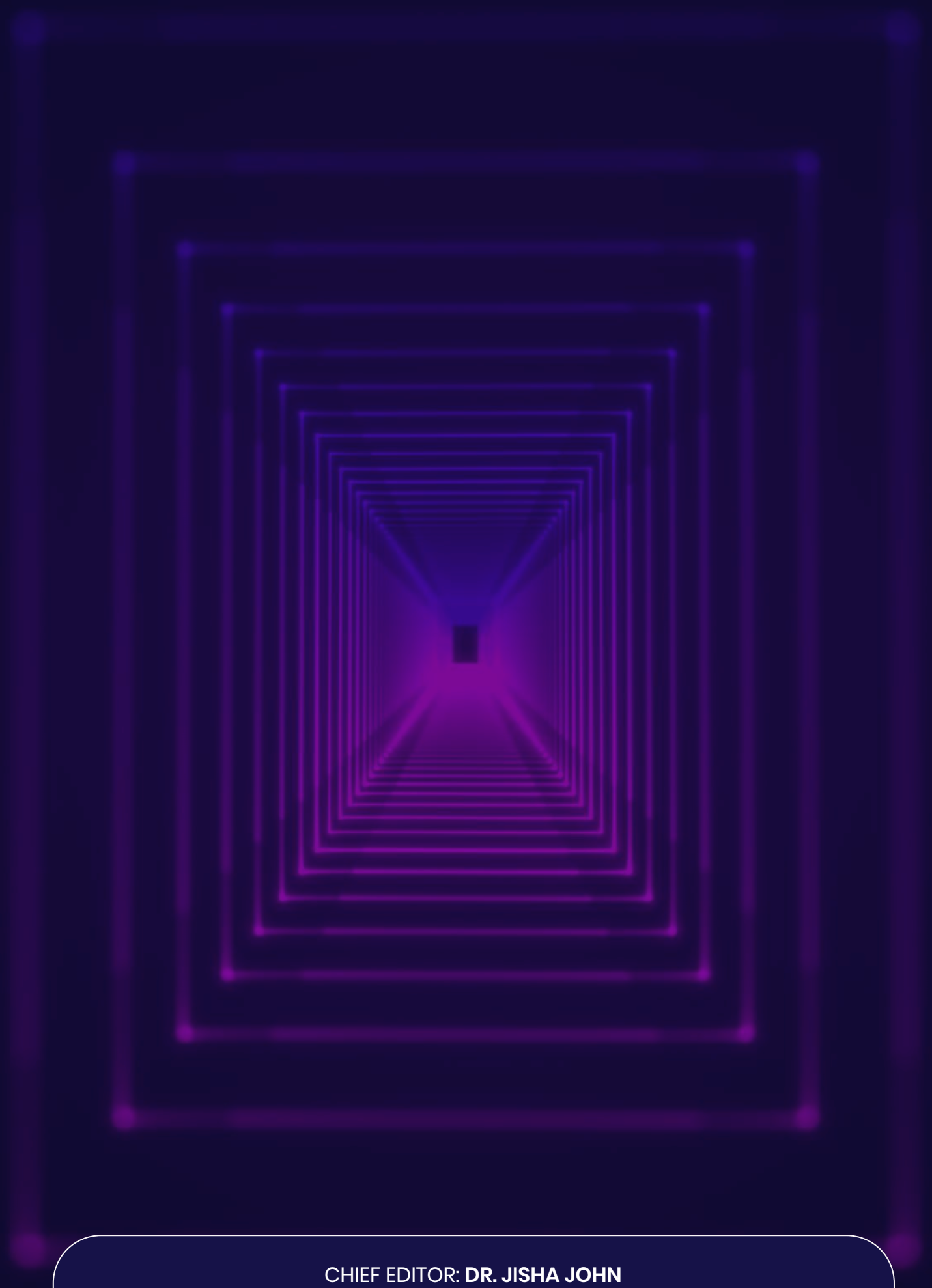
Ms. Indu V

Ms. Renjitha Radhakrishnan

Ms. Bindhya P S

Ms. Anjali Devi A J

Ms. Diana Mathew

Ms. Sherly Wilson R
(Technical Staff)

CHIEF EDITOR: **DR. JISHA JOHN**
FACULTY EDITORS: **MS. PRATHIBHA S NAIR | MS. VIJITHA ROBINSON**
STUDENT EDITORS: **MR. JOHAN S VARUGHESE | MR. G A ASHWIN KUMAR**