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.

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

The Department of Computer Science and Engineering, in collaboration with the CSI Student Branch at MBCET and the Center for Computational Intelligence and Cyber Security at MBCET, organized an expert talk titled "The Role of AI in the IT Industry." This event took place on March 28, 2025, for S4 CS2 and CT students. The session featured distinguished 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 this event were Mr. Anand Haridas and Dr. Priya Mariam Raju, Assistant Professors in the Department of Computer Science and Engineering.

SERVED AS RESOURCE PERSON

Ms. Jisha Jose, Assistant Professor in the Department of Computer Science and Engineering, served as a resource person for the "Familiarization and Demonstration of the 8086 Microprocessor" sessions. These sessions were conducted for the fourth-semester MSc Physics students of the Department of Physics at Mar Ivanios College (Autonomous), Thiruvananthapuram, on March 21, 2025, and March 27, 2025.

PARTICIPATED IN ONLINE WORKSHOP

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

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

- **Mathematics of Machine Learning**

Ms. Asha S., Associate Professor in the Department of Computer Science and Engineering, successfully completed a 40-hour Faculty Development Program titled "Mathematics of Machine Learning." The program was sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, and organized by the HUB E & ICT Academy at NIT Warangal, Telangana, in association with the Spoke E & ICT Academy at VIT, Chennai. It was held from March 17 to March 29, 2025.

- **Engineering Entrepreneurship and IPR**

Ms. Vijitha Robinson, Assistant Professor in the Department of Computer Science and Engineering, completed a Faculty Development Program on "Engineering Entrepreneurship and IPR." The program was organized by KTU in collaboration with the Kerala Startup Mission and the Udhyam Foundation, and conducted from March 5 to March 26, 2025.

PROJECT EXPO '25

The Project Expo, organized for final year students to showcase their innovative projects, took place on April 2, 2025, at Pascal Hall. This event was hosted by the Department of Computer Science and Engineering in collaboration with CSI SB MBCET and ACE MBCET. The projects were evaluated by esteemed guests Mr. Bhadran V. K., Technical Director of Alibi Global, and Mr. Praveen P., Chief Technology Officer of NYTT AB in Stockholm, Sweden. Their valuable insights and feedback provided great encouragement to the students, adding immense value to the event. From S8 CS1, the Best Project award went to "Traffic Signal Optimization using Hypergraph Networks," presented by Ms. Jesny Jayan, Mr. Manu Boby, Ms. Nithya Jose, and Shaun Joseph. The Runner-up was "A Comprehensive Wi-Fi Communication System with Voice, Texting, and Collaboration," developed by Ms. Feba Mariam, Mr. Aravind JL, Mr. Johann Varghese, and Mr. Sam Peter. From S8 CS2, the Best Project was awarded to "Clipse: A Semantic Image Search App," presented by Mr. Abhinav Prakash, Mr. Abhishek S, Mr. Rhon S. George, and Mr. Ritin George D. The Runner-up from CS2 was the project "E-voting using Blockchain," created by Mr. Jino B. Sajeev, Mr. Nandakrishnan G. D., Mr. Nandu Krishna M, and Mr. Vinu B. Kurup. The expo was a successful event that showcased the technical excellence and creativity of the final year students, providing them with a platform to present their work and engage with industry professionals. Faculty Coordinators for the event were Dr. Jesna Mohan, Associate Professor in the Department of CSE, and Ms. Gayathri K. S., Assistant Professor in the Department of CSE.

"SPARSHAM" SOCIAL OUTREACH ACTIVITY

As part of the social outreach initiative "SPARSHAM," the Department of Computer Science and Engineering organized a clothing donation drive for the residents of Snehatheeram Care Home in Kallara. The donated items were delivered to the caretakers on April 8, 2025. Faculty Coordinators: Ms. Poorna B.R. and Ms. Vijitha Robinson, Assistant Professors, CSED.

CYBER FORENSICS: TECHNIQUES FOR INVESTIGATION – TALK SESSION

The Department of Computer Science and Engineering, in association with Alibi Global Private Limited, organized a talk session on Cyber Forensic Investigation tools and techniques on April 3, 2025. Dr. Sunil S. P., Director of Operations at Alibi Global Pvt. Ltd., conducted the session for third-year B.Tech and first-year M.Tech CSE students. Various topics related to corporate crimes and recovery tools were covered during the session. Faculty Coordinator: Ms. Gauri Shree V.K., Assistant Professor, CSE.

MOU SIGNED BETWEEN MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY & ALIBI GLOBAL PRIVATE LIMITED

An MOU was exchanged between Mar Baselios College of Engineering and Technology (MBCET) and Alibi Global Private Limited on April 3, 2025. The MOU was signed by Shri Bhadran V. K., Director of Alibi Global Private Limited, and Dr. S. Viswanatha Rao, Principal of MBCET. Also present at the event were Dr. Sunil S. P., Director of Operations, and Ms. Manju S. L, HR Head from Alibi Global. This partnership represents a significant step towards bridging the gap between academia and industry, creating opportunities for collaborative research, skill development, internships, and enhanced learning experiences for both students and faculty.
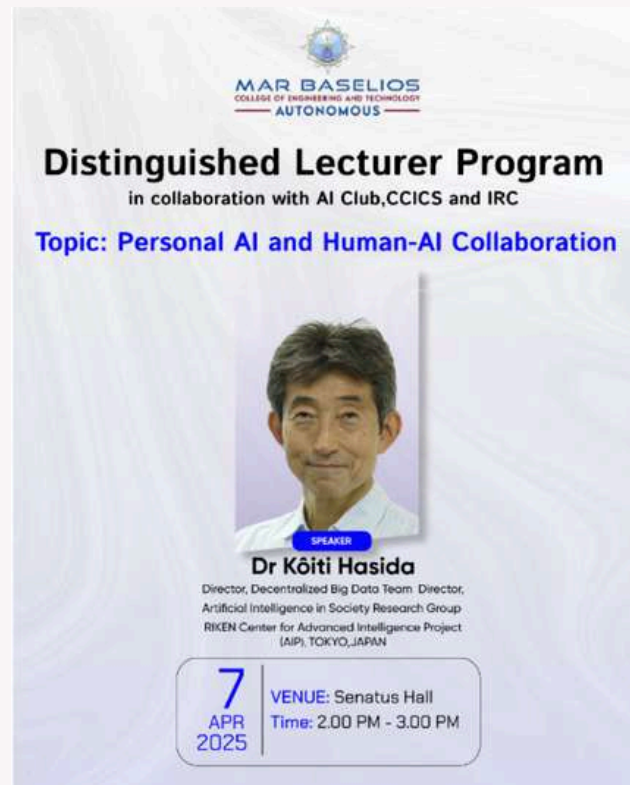

CONDUCTED BOARD OF STUDIES MEETING

The eighth Board of Studies Meeting for the Department of Computer Science and Engineering took place on Tuesday, April 29, 2025, at 2:30 PM. The meeting was held in a hybrid format at Pascal Hall. The primary agenda was to finalize the third-year syllabi for the B. Tech programs in Computer Science and Engineering (CSE) and CSE (Artificial Intelligence) under the 2023 curriculum, as well as the fourth-year syllabi for the B. Tech programs in CSE under the revised 2020 curriculum and the 2022 CSE (AI) curriculum.

DISTINGUISHED LECTURER PROGRAM

Dr. Kôiti Hasida, Director of the Decentralized Big Data Team and the Artificial Intelligence in Society Research Group at the RIKEN Center for Advanced Intelligence Project (AIP) in Tokyo, Japan, delivered a lecture on "Personal AI and Human-AI Collaboration" to the students of Mar Baselios College of Engineering and Technology. This event took place on April 7, 2025, at the Senatus Hall. RIKEN, Japan's largest national research and development agency, is renowned for its high-quality research across a diverse range of scientific disciplines.

Founded in 1917 as a private research foundation, RIKEN has rapidly expanded in size and scope, now encompassing a network of world-class research centers and institutes throughout Japan

VISIT TO DIGITAL UNIVERSITY AND NISSAN DIGITAL INDIA LLP

Dr. Koiti Hasida, Director of the Decentralized Big Data Team at the RIKEN Center for Advanced Intelligence Project (AIP), Japan, along with Ms. Sarada Balachandran Sumadevi, a Scientist at the same center, recently visited the Digital University of Kerala and Nissan Digital India LLP. Accompanying them were esteemed guests from Mar Baselios College of Engineering and Technology (Autonomous), Thiruvananthapuram, Kerala – Dr. Tessy Mathew, Professor of Computer Science Engineering, and Dr. Nidhi M.B., Professor of Mechanical Engineering. The visits facilitated insightful discussions and knowledge exchange, fostering stronger collaborations between academia and industry in the field of advanced intelligence and digital innovation.

EXPLORING GLOBAL RESEARCH FRONTIERS: OPPORTUNITIES FOR COLLABORATION WITH RIKEN

An interactive discussion titled "Exploring Global Research Frontiers: Opportunities for Collaboration with RIKEN" was held with Dr. Koiti Hasida and Dr. Sharada.

MOU SIGNED BETWEEN MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY AND ADDITIONAL SKILL ACQUISITION PROGRAMME KERALA

An MOU was signed between Mar Baselios College of Engineering and Technology (MBCET) and the Additional Skill Acquisition Programme (ASAP) Kerala, a public sector undertaking fully owned by the Government of Kerala under the Higher Education Department, on April 23, 2025. The agreement was signed by Smt. Preethy Leonold, Head of Procurement at ASAP Kerala, and Dr. S. Viswanatha Rao, Principal of MBCET. Sijeesh P. I, Associate Director of the Training Division, and Ms. Janaki Venukumar, Product Head of the Training Division at ASAP Kerala, were also present at the event. This partnership aims to strengthen industry collaboration by providing access to industry-relevant skill training, certified trainers, and internship opportunities, significantly enhancing employability and enriching the learning experiences for both students and faculty

BEST PAPER AWARD RECEIVED

Ms. Sraya Sanjay, Ms. Sona S, Ms. Adwaitha 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 the Future of Connected Systems – IoT, AI, and 5G (FoCS-2025). The conference was organized by the Department of Computer Science and Engineering, the Department of Artificial Intelligence & Data Science, and the Department of Software Engineering at Noorul Islam Centre for Higher Education in Kumaracoil, Kanyakumari, India, held on May 2, 2025.

FACULTY AS RESOURCE PERSON

Ms. Vijitha Robinson, Assistant Professor in the Department of Computer Science and Engineering, served as a resource person for a session on "Numerical Methods Using C++" for MSc students in the Department of Physics at Mar Ivanios College, Trivandrum, on Wednesday, May 7, 2025.

SESSION CHAIRS

- Dr. Neena Raj N. R., Assistant Professor in the Department of Computer Science and Engineering, served as a session chair on May 24, 2025, at the 6th IEEE International Conference on Control, Communication, and Computing (ICCC25), hosted by the College of Engineering, Trivandrum.
- Dr. Jesna Mohan, Associate Professor in the Department of Computer Science and Engineering, served as a session chair on May 25, 2025, for the 6th IEEE International Conference on Control, Communication, and Computing (ICCC25), organized by the College of Engineering, Trivandrum.

PAPER PRESENTATION

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

The paper titled "Enhancing Stroke Recovery: Rehabilitation using MRI and Predictive Modelling," authored by Ms. Anna G. Samuel, Ms. Angel T. John, Ms. Anna Biju Abraham, and Ms. Vismaya C. P. (2021-2025 batch, Department of CSE), along with Dr. Jisha John (Professor and Head of the Department, CSE), was presented at the 6th IEEE International Conference on Control, Communication, and Computing (ICCC25), which took place from May 23 to May 25, 2025, at the College of Engineering, Trivandrum.