



**MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**AUTONOMOUS**

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENT ACTIVITIES

## 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.

## PATENT PUBLISHED

Dr. Sibi Chakkaravarthy Sethuraman (VIT-AP) and Ms. Devipriya V. S. (Assistant Professor, Dept of CSE, MBCET) published a patent titled "Vikrant: Open source indigenous Honeypot-A container based approach to provide an additional layer of isolation and security of honeypots".

## FACULTY AS RESOURCE PERSON

Ms. Dhanya L K, Assistant Professor, Department of Computer Science and Engineering, served as the resource person for the 2-day workshop on Machine Learning Using Python, for the S3 and S1 BCA Students at Christ College, Vizhinjam, on the 18th & 19th of October 2023.



Venganoor, Kerala, India  
695523, 9XWR+2J, Kalluvettankuzhy, Vizhinjam, Venganoor, Kerala

## FACULTY ORIENTATION SESSION

The “Recharge your Bounce-back Persona” session organized by TLC MBCET, which took place on October 20, 2023. This faculty orientation session was addressed by Ms. Dainu Kuruvilla, HR Manager at Tata Elxi. The session likely focused on strategies and techniques to enhance resilience and the ability to rebound from setbacks or challenges



## ISTE KERALA SECTION SPECIAL APPRECIATION AWARD



Ms. Asha S., (Associate Professor, Dept. of Computer Science and Engineering) is awarded the ISTE Kerala section Special Appreciation Award for her valuable contributions.

## PLACEMENT ORIENTATION SESSION BY CARESTACK

A “Placement Orientation Session” was conducted on October 27, 2023 by CareStack, at MBCET, targeting third-year Computer Science students. The session was led by Nadia Baba, HR Manager at CareStack. The session was explicitly designed to assist these students in preparing for their job placements and career opportunities of Computer Science



## PAPER PUBLICATION

Ms. Sreeja S. R., (Asst. Professor, Dept. of CSE) published the work “A study on modelling the dopaminergic pathways on Parkinson’s Disease” in the American Institute of Physics(AIP) conference Proceedings Recent Advances in Industry 4.0 Technologies.(AIP Conf. Proc. 2917, 050008 (2023)).

## FDP ATTENDED

Ms. Anjali S. (Asst. Professor, Dept. of CSE), has satisfactorily participated in the online Faculty Development Program on ‘Advances In Deep Learning Models For Object Detection’, conducted from 2023 October 26th to 28th, by the Division of Computer Science & Engineering, School of Engineering, Cochin University of Science & Technology.

## FDP ATTENDED

Ms. Jisha Jose, Asst. Professor, Dept of CSE attended the AICTE-TLB Faculty Development Program, a part of the Next Gen Employability Program, from 16 th October 2023 to 20th October 2023. This initiative is a collaboration between the Edunet Foundation and EY GDS Ernst & Young), in partnership with AICTE, with the objective to provide comprehensive training to faculty members nationwide.

## STUDENT WELFARE-AWARENESS PROGRAMME

Student Welfare-Awareness Programme “Aduthariyam Lahariyude Niyamam” by Kerala State Excise Department is hosted by Mar Baselios College of Engineering and Technology on 04/11/2023. Around 250 students from various colleges in Trivandrum district participated in the programme. Inauguration was done by Shri. D Balachandran, Deputy Excise Commissioner Thiruvananthapuram. Session was handled by Shri. Binu P M, Assistant Professor Kerala Law Academy, followed by quiz competition and debate. Mr. Ajay K R Assistant Excise Commissioner and Vimukthi Manager, Mr. Shiju Kumar S S Excise Circle Inspector Thiruvananthapuram, Mr. Vignesh Vishwanath Vimukthi Mission Coordinator Thiruvananthapuram, Mr. Ramjith R P Assistant professor MBCET addressed the gathering.

## ATTENDO APP LAUNCHED

As part of Awareness against drug usage and laws conducted by Kerala State Excise department in association with MBCET on 4/11/2023, a Mobile application “Attendo” developed by students of the Department of Computer Science and Engineering was launched by Shri. D Balachandran, Deputy excise commissioner Thiruvananthapuram. This application is in use at Govt. HSS Anavoor. Documents related with this app is handed over to Anavoor HSS principal. The main highlight is that the App can help to monitor the students and keep them away from the menace of drug abuse. Through this application students can register the complaints if anyone is approaching them with malicious intentions. These complaints will be visible to the Kerala Excise Department through email, automatically.



## PAPER PRESENTATION

Ms. Lino Zachariah, Assistant Professor, Dept. of CSE, presented the paper entitled “Review on vision based human motion detection using Deep Learning” at International Conference held at Kongunadu College of Engineering and Technology, Trichy on 20th September 2023.

## PARTICIPATED IN THE MuLearn EVENT

Mr Arun J S (Asst. Professor, Dept. of ECE) and Ms. Vishagini.V ( Asst. Professor Dept. of CSE) have participated in the 2-day event on “Education 4.0 - Investing in the Future of Jobs & Skills” from 6-7 October 2023, organized by the MuLearn. The event aims to explore the transformative impact of Education 4.0 on the job landscape and skill requirements of the future.

## EXPERT TALK ON “VALUE OF IEEE EXPLORE & EBSCO eBooks IN RESEARCH, PLACEMENT & CAREER DEVELOPMENT”

Department of Computer Science & Engineering organized an expert talk on “Value of IEEE Explore & EBSCO eBooks in Research, Placement & Career Development” on 5 th October 2023 for the final year students of the department. The talk was delivered by Nanda Lal.T.S, Senior Training Manger, South India EBSCO Information Services, New Delhi. Faculty coordinator: Ms. Deepthi K Moorthy.



The poster features the logos of Mar Baselios College of Engineering and Technology and CSI MBCEET. It includes the title of the talk, the organizing department, the resource person's name and credentials, and the date and time of the event.

**MAR BASELIOS**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
AUTONOMOUS  
Thiruvananthapuram, Kerala

**EXPERT TALK ON**

“Value of IEEE Xplore & EBSCO eBooks in Research, Placement & Career Development”

Organized by  
**Department of Computer Science & Engineering**  
In association with CSI MBCEET

**Resource Person**  
**Nanda Lal T.S**  
(BBA, M.L.Sc, UGC NET & JRF)  
Senior Training Manager - South India  
EBSCO Information Services, New Delhi

**Date & Time**  
October 5, 2023 @ 1.30 pm - 2.30 pm

## BOOK CHAPTER PUBLISHED

Ms. Devipriya V. S. (Asst. Professor, Dept. of CSE) co-authored a book chapter titled **“Knowledge-Twin: Addressing the Current Challenges of Knowledge Management in Industry 4.0 Using Digital Twins”** in ‘Digital Twins’ (ISBN: 979-8-89113-057-9), and is published on September 2023.



## BEST START-UP AWARD

The Start-Up by Mr. Abhilash George (S5 CS2) and Ms. Ann Santhosh (S5 EC2) won the “Best Startup Award” in ‘NOVA 2k23’ conducted by Don Bosco college on 9th November 2023. The team has already won funding from the Young Innovators Program organised by KDISC.



## HANDS-ON WORKSHOP ON "OBJECT ORIENTED DESIGN(JAVA)"

Department of Computer Science & Engineering in association with CSI MBCET, conducted a hands-on workshop on Object Oriented Design(Java) for third semester B-Tech CSE students(count- 112) on 25/11/23. Ms.Anjali C, Senior Software Engineer at Ospyn Technologies gave students an insight on Java concepts of Lambda expressions and Collections.

**Faculty Coordinators:** Ms.Lino Zachariah, Ms. Gauri Shree V K.

Student Coordinator: NandiniKrishnaS3 CS2.



## DEKATHON 2.0 WINNERS

A team consisting of Abhilash George(S5 CS2), Johann Joshua Knox(S5 CS2) and Ann Santhosh(S5 EC2) won second place at Dekathon 2.0, held at St Thomas College, Chengannur. They received 25,000/- cash prize as well as a fully sponsored one week internship at FabLab KSUM, Kochi.



## TOP 100 CODERS COMPETITION

The students of Mar Baselios College of Engineering and Technology got selected in the **Top 100 coders competition** organised by **Gtech Mulearn** in association with **Kerala Startup Mission**. During the hackathon, they developed their software products and showcased them in the Huddle Global, India's Largest Beach Startup Festival from 16 November 2023 to 18 November 2023. They have placed themselves within the top 20k rank globally in the HackerRank platform for competitive coding. The members are Aditya S, S5EC2, Amrithesh S, S5EC2, Prajwal Pramod, S5CS2, Abel Louis Fernandez, S1 CT.



## Invited Talk on 'How to crack Gate and other competitive exams'

An invited talk on 'How to crack Gate and other competitive exams' was conducted on 3rd October, 2023 by the Department of Computer Science and Engineering. The resource person was Mr Jayaram V, HR Head & Advisor to CGP Carrer Avenues, Trivandrum. Students of fifth semester cse attended the session.

## CAREER ENHANCEMENT SESSION BY CAPABL

The Department of Computer Science & Engineering organised a Career enhancement session in association with Capabl, Bangalore. During the session, the CEO of the company, Mr. Mayank Arora addressed the gathering and conducted AISAT( All India Skill Assessment Test) where 30 students from S7 CSE and 30 students from S3CSE were selected for their Naukri Saksham Programme.

Capabl will provide support and opportunities to these students for doing internships and getting placements. 120 students from S7CSE and 120 students from S3 CSE attended the session.

Faculty coordinators:

Ms. Sreeja S. R. and Ms. Krishna L.

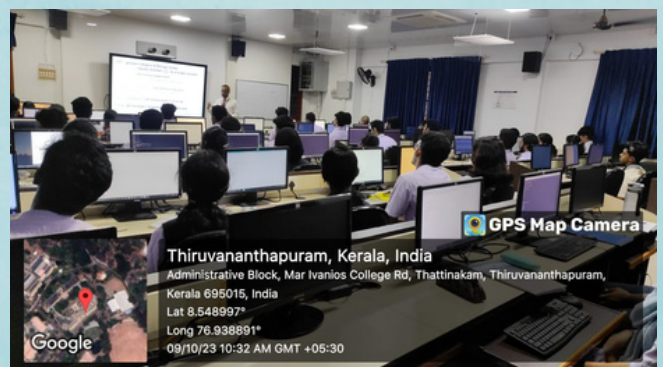


## FACULTY AS RESOURCE PERSON

Dr. Neena Raj N R, Assistant Professor, Department of CSE served as resource person for the workshop on “Let’s Learn LaTeX” organized by Department of Computer Applications Christ College Vizhinjam on 25th October 2023.

## HANDS-ON WORKSHOP on PYTHON PROGRAMMING by UST

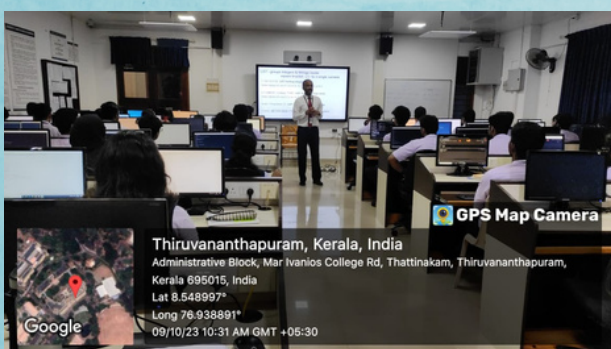
The Department of Computer Science and Engineering, MBCET, in association with UST, organized a five days hands-on workshop on Python programming from October 9 to 13, 2023. The event aimed to empower participants with essential Python skills, catering to both beginners and intermediate-level programmers. 50 students of third semester from the departments of CS, AI, EL and ME participated. The workshop commenced with a comprehensive overview of Python, its syntax, and key features. Participants were introduced to the versatility of Python as a programming language. In addition, the workshop focussed on equipping attendees with practical skills in developing user interfaces using Python and integrating them seamlessly with MongoDB—a popular NoSQL database.



The workshop featured seasoned speakers with expertise in Python UI development and MongoDB. Mr. Sthanu Kumar Ramakrishnan Thambi (UST, IN) kicked off the workshop with the basics of Python programming language and its capabilities in UI development. The sessions focused on layout design, event handling, and integrating functionality into the UI. Participants were introduced to the popular Tkinter framework, gaining hands-on experience through interactive coding exercises. Mr. Thomas George Koshy, an expert in database management, introduced participants to MongoDB—an open-source NoSQL database. The highlight of the workshop was the session on integrating the Python UI developed earlier with MongoDB. Participants learned how to establish a connection, perform CRUD operations, and ensure a seamless flow of data between the UI and the database. The workshop received overwhelmingly positive feedback from participants. Many expressed appreciations for the hands-on nature of the sessions, citing it as a valuable opportunity to apply theoretical knowledge in a practical setting. Following the workshop, an industrial visit is scheduled to UST for all the 50 participants on October 20, 2023.

## CAREER ENHANCEMENT SESSION BY CAPABL

On September 27, 2023, the Mar Baselios College of Engineering and Technology hosted the SIH Prelims Internal Hackathon. This exciting event unfolded over the course of 8 intensive hours, commencing at 8 am and culminating in a judging process that concluded around 10pm. Under the diligent guidance of faculty coordinators Mr. Arun J S, Ms. Vishagini V, and Ms. Dhanya L. K., alongside the unwavering commitment of student coordinators Ms. Neha Elizabeth Syam (Final Year Student) and Mr. Ferwin Lopez (Pre-Final Year Student), this collective effort led to a successful and memorable event. The hackathon was a platform for innovation and creativity, and its impact was made possible by the hard work of these coordinators and the passion of the participants.



In total, there were 31 teams and 186 participants who took part in the hackathon. Five distinguished mentors, Mr. Rinse and Mr. Alen, both alumni of our college currently working at TCS, Dr. Tessy Mathew (Professor, Dept. of CSE), Dr. Jesna Mohan and Ms. Jisha Jose (Asst. Professor, Dept. of CSE), played a pivotal role in guiding and motivating the participating students throughout the hackathon. Their insights and experience significantly contributed to the success of the event. In addition to these mentors, 4 accomplished alumni Mr. Savio Menifer, Mr Gautham, Mr. Akshay and Mr Vishnu P Kumar served as judges. These judges, occupying esteemed positions in various fields, provided invaluable perspectives and expertise, further enhancing the quality of the event. The judging process commenced at approximately 6:30 pm at four different venues in a well-organized manner. Out of the 31 participating teams, 15 were selected to represent our college in SIH'23.

## INDUSTRIAL VISIT TO COGNIZANT

An industrial visit to Cognizant Technologies, a service-based IT company, was organized for the third-year students of the Department of Computer Science & Engineering. The IV for S5 CS2 was on 15-11-2023 and for S5 CS1 was on 16-11-2023. The purpose of the visit was to bridge the gap between academic knowledge and practical industry practices by giving students first hand experience with a service-based IT organization.





The industrial visit to Cognizant offered students with a well-structured and instructive session schedule, boosting their comprehension of key industry concepts. A comprehensive session on data analysis and big data was held, providing significant insights into cutting-edge technology and their applications. The session on “Agile methodology” put light on flexible and collaborative project management approaches. The students from S5 CS1 were accompanied by the Faculty members: Dr. Tessy Mathew, Dr. Jesna Mohan and Mr. Praveen JS and S5 CS2 by faculty members: Ms. Asha S, MS. Jisha John and Mr. Shibu VS.

## SESSION ON CYBER SECURITY

A session on “Cyber Security” was conducted by- Red team hacker academy, TVM at Pascal hall for S5 CSE students on 14-11-2023, from 10.30 am to 11.30. The session focussed on various cyber threats, intrusions, network hacking and its implications. Moreover, the session also dealt with ways by which cyber frauds could be detected and averted. Faculty coordinators: Ms. Deepthi K Moorthy, Mr. Anand Haridas, Ms. Krishna L.



# ACE UNVEIL

The Association for Computer Engineers (ACE) represents the Department of Computer Science and Engineering within our institution. The inaugural ceremony titled “**ACE UNVEIL**” held on November 24th and was inaugurated by Dr. Brijesh Madhavan, CEO of Curvelogics Advanced Technology Solutions Pvt. Ltd., and Mr. Alex Varghese, an alumnus of MBCET and Senior Cybersecurity Architect at Oracle India. The ceremony included the symbolic lighting of the lamp by these distinguished guests, joined by our Principal, Vice Principal, Head of Department (HOD), and faculty coordinators. The unveiling of the Executive Committee members took place during the event, disclosed by the alumnus. The session drew attendance from students and faculty of the Computer Science and Engineering (CSE) department.

**CHIEF EDITOR:-  
DR. JISHA JOHN**

**FACULTY EDITORS:-  
MS. PRATHIBHA S NAIR  
MS. VIJITHA ROBINSON**

**STUDENT EDITOR:-  
MR. BRYAN BISHI  
MR. FERWIN LOPEZ**

Concurrently, a session named ACE LAUNCHPAD, with a primary focus on first-year students, was conducted. This session aimed to provide young innovators exposure to various industry domains. Mentors from the fourth year of the CSE department facilitated learning stations covering areas such as Web development, App development, UI/UX, Web3.0, Diffusion, and Marketing.

## **Faculty coordinators:**

Mr Praveen G L,

Ms. Deepthi K Moorthy

## **Student coordinators:**

Elizabeth Syam,

Abraham Aniyam Varghese

