



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

BOOK CHAPTER PUBLISHED

Mr. Abhijith K. P., Mr. Partha Santosh, Mr. R. Sarath, and Dr. Jesna Mohan (*Associate Professor, Department of Computer Science and Engineering*) have published a book chapter titled "A Computer-Aided Diagnosis System for the Detection of Parkinson's Disease." This chapter appears in the book *Computational Intelligence for Oncology and Neurological Disorders in Intelligent Informatics**, published by Springer.

SMART WASTE BIN PROJECT TEAM RECEIVES CSI INAPP GLOBAL AWARD

A student team from the Department of Computer Science and Engineering (CSE), consisting of Mr. Bryan Bishi, Mr. Abraham A.V., and Mr. Jinz Varghese, under the guidance of Mr. Praveen G.L. (*Assistant Professor, Dept. of CSE*), has been awarded the Best Project Award at the 13th CSI Inapp International Student Project Award ceremony. This event occurred at Travancore Hall, Technopark, on November 20, 2024. The team received a memento along with a cash award of 50,000.



ATTENDED WORKSHOPS

Dr. Jesna Mohan, Associate Professor in the Department of Computer Science Engineering, attended a workshop on designing a foundation module in Computer Science Engineering on November 21, 2024. The workshop was organized by K-DISC under the Kerala Knowledge Economy Mission.

STTP ATTENDED

Dr. Jesna Mohan (*Associate Professor*), Ms. Jisha Jose, and Ms. Bibi Annie Oommen (*Assistant Professors*) from the Department of Computer Science and Engineering attended a six-day Short Term Training Program (STTP) on "AI: Advanced Machine Learning Techniques and Practical Implementations." The program was organized by Amal Jyothi College of Engineering and took place from November 18, 2024, to November 23, 2024.

ONLINE TALK SESSION ON SOFTWARE TESTING: AN INDUSTRIAL APPROACH

The Department of Computer Science and Engineering, in collaboration with CSI MBCET and ISTE MBCET, organized an online talk session titled "Software Testing: An Industrial Approach" on November 9, 2024, for CSE students. The resource person for the session was Ms. Shalini L, Associate Consultant at Infosys, who provided valuable insights into how software testing is conducted in the industry. The faculty coordinators for the event were Ms. Deepthi K. Moorthi and Ms. Poorna BR, Assistant Professors in the Department of Computer Science and Engineering.



The poster is for an online talk session titled "Software Testing: An Industrial Approach". It features the following information:

- Logos:** CSI MBCET TRIANGULAR, MAD. BASELIOS AUTONOMOUS, and ISTE MBCET.
- Text:** Department of Computer Science and Engineering in association with CSI MBCET & ISTE MBCET presents **Software Testing an Industrial Approach**.
- Speaker:** SHALINI L, Associate Consultant, Infosys.
- Date and Time:** 09th November 2024, 10:00 AM - 11:30 AM.
- Registration Fee:** Rs. 50/-.
- Register At:** <https://bit.ly/csisoftwaretesting>
- QR Code:** A QR code for registration.
- Faculties In-Charge:** Ms. Deepthi K. Moorthy, Ms. Poorna B. R.
- Footnote:** *Participation certificates will be provided.

A circular portrait of Ms. Shalini L is included on the right side of the poster.

INFOSYS SPRINGBOARD CERTIFICATION

Ms. Prathibha S. Nair, Assistant Professor in the Department of Computer Science and Engineering, has completed the Computer Vision Certification offered by Infosys Springboard. Ms. Anjali S., Assistant Professor in the Department of Computer Science and Engineering, has also completed Session 3_Computer Vision Certification through Infosys Springboard. Ms. Lino Zachariah, Assistant Professor in the Department of CSE, has completed certifications in Java Programming and Computer Vision through Infosys Springboard.

PAPER PRESENTED

Mr. Adinath Ajith Naik, Mr. Adarsh Joseph Kalief, Ms. Gouripriya S A, Mr. Raef Abdul Nazir, and Ms. Jisha Jose (Assistant Professor, Department of Computer Science and Engineering) presented a paper titled "Smart Vehicle Parking Management System Using Machine Learning and IoT" at the 1st International Conference on Applied Artificial Intelligence and Machine Learning. This conference was organized by the Departments of Computer Science and Engineering, Information Technology, CSE (AI & ML), CSE (DS), and AI & DS at Vignan Institute of Technology and Science, Hyderabad, Telangana, India, held on August 30th and 31st, 2024.

SERVED AS RESOURCE PERSON

The Department of Computer Science and Applications of GITAM Vignan College Maranalloor, in collaboration with the Computer Society of India (CSI), organized an Expert Lecture Series on Natural Language Processing (NLP) on October 28, 2024. Dr. Tessy Mathew (Professor, Department of Computer Science and Engineering) delivered an insightful session that covered key concepts and advancements in NLP.

ATTENDED CII SHE LEADS THE BUSINESS CONCLAVE

Dr. Merlin George, Assistant Professor in the Department of Computer Science and Engineering, and Mr. Vipinkumar K.C., Chief Operating Officer for Corporate Relations, represented our institution at the recent CII She Leads the Business Conclave. The event featured inspiring sessions led by prominent businesswomen who shared their journeys and insights on resilience, innovation, and leadership. The inauguration was graced by the Hon'ble Minister for Law, Industries, and Coir, P. Rajiv, which set the stage for engaging discussions. Other distinguished speakers included Shri S. Harikishore IAS, Managing Director of KSIDC; Smt. A. Bhuvaneshwari, Chief General Manager of the State Bank of India; Ms. Lekha Balachandran, Managing Director of Resitech Electricals; Ms. Sarada Jayakrishnan, General Manager at Terumo BCT; Ms. Vanitha Dalta, Vice Chairperson of Elico Ltd.; Ms. Nisary Mahesh, Founder & CEO of Her Money Talks; and Ms. Nimisha Vadakkan, Managing Director of Aceware Fintech Pvt Ltd. These accomplished leaders shared invaluable lessons, emphasizing the importance of resilience and vision—key qualities essential for achieving and sustaining success in the professional world.

PAPER PUBLISHED

Ms. Dhanya LK, Assistant Professor in the Department of CSE, published a paper titled "Integrating Hybrid Neural Networks and Domain-Specific Embeddings for Detecting Hate Content in Code-Mixed Social Media Comments" in the Journal of Internet Services and Information Security, 2024, which is indexed by Scopus.

COURSE COMPLETED

Mr. Praveen JS, Assistant Professor, Department of CSE, has completed the eight-week NPTEL certification course on "Theory of Computation," offered by IIT Kanpur from July to September 2024.

VISIT TO THE LIQUID PROPULSION SYSTEMS CENTRE (LPSC)

On October 21, 2024, Dr. Jisha John (Head of Department), Dr. Tessy Mathew, Prof. Raju K. Gopal, and Asst. Prof. Shon J. Das from the Department of Computer Science and Engineering visited the Liquid Propulsion Systems Centre (LPSC) in Valiyayamala. The purpose of the visit was to discuss potential collaboration for their upcoming conference, NetACT24.



ONLINE WORKSHOP ON “JAVA DEVELOPMENT - INDUSTRY TOOLS & TECHNIQUES”

An online workshop titled “Java Development - Industry Tools and Techniques” was conducted on September 29, 2024, for third-semester students of the CSE and CT batches. The session was led by Mr. Renjith B., a Software Consultant from Technopark. The workshop started at 2 PM and concluded at 5 PM, with around 160 students from both batches in attendance. The staff coordinators for this online session were Ms. Lino Zachariah, Ms. Gauri Shree V.K., and Mr. Anand Haridas.



BOOK PUBLICATION

Ms. Prathibha S. Nair and Ms. Vijitha Robinson, Assistant Professors in the Department of CSE, co-authored a book titled “Algorithmic Thinking with Python.” The book covers problem-solving techniques and the basics of the Python programming language.



“RADIANCE” BY CSI SB MBCET

Radiance, a one-day event organized by the CSI Student Branch at MBCET in collaboration with the Department of Computer Science and Engineering, was successfully held for first-year students as part of an introductory session on professional body activities.

The event commenced with enthusiastic first-year participants registering and receiving CSI merchandise, followed by a warm welcome and an ice-breaker bingo game to promote networking. Teams were formed for collaborative activities, beginning with Scenario Enacting, which fostered creativity and teamwork. A guest speaker session featuring seniors Ms. Varsha Renjith, Mr. Chris Dylan John, and Mr. Adlu Rahman provided valuable advice. The “Brain Write & Presentation” session allowed teams to brainstorm and present innovative solutions. After lunch, students enjoyed an exciting Treasure Hunt and a themed Pictionary game. The event concluded with reflections on CSI’s role in their professional development, followed by prize distribution and group photos, leaving a lasting impression on the first-year students. The event was organized by Mr. Niranj R, Ms. Vedha Mahadevan, Mr. Chris Thomas Abraham (all from S3 CS2), and Ms. Anoushka L Nair (S7 EC), with valuable volunteer support from Ms. Nayana Anna Binu (S3 CS2), Mr. V.S. Sabarinath (S3 MEI), Ms. Sara Robin Baby (S3 CS2), Mr. Shilbin SR (S3 EL), Ms. Sradhya Renish (S3 CS2), and Ms. Vasundhara S.R. (S3 CS2).

The faculty coordinators for this event were Ms. Deepthi K. Moorthy (Assistant Professor, Dept. of CSE), Dr. Anne Dickson (Associate Professor, Dept. of CSE), and Ms. Krishna L. (Assistant Professor, Dept. of CSE).



LARAVEL: AN INDUSTRY APPROACH

The Department of Computer Science and Engineering held a session titled “Laravel: An Industry Approach” for 7th-semester students on October 18, 2024. Mr. Renjith B., a Software Consultant from Technopark, led this session and shared valuable insights into the practical use of Laravel in the industry. Students gained knowledge from real-world examples of web development. The event was coordinated by Ms. Gauri Sree V. K. and Dr. Merlin George, contributing to its success in linking academic learning with industry practices.



WORKSHOP ON “BLOCKCHAIN BASICS USING ARBITRUM” BY BLOCKHUB MBCET

On September 28, 2024, the Blockhub Club of Mar Baselios College of Engineering and Technology (MBCET) organized a hands-on session on blockchain basics, focusing on the use of Arbitrum. The event took place in Senatus Hall from 10:00 AM to 2:30 PM and was primarily attended by first-year students, reflecting their growing interest in blockchain technology.

Mr. Sethu Raman Omanakuttan, an expert in blockchain technologies, led the session, delivering an engaging and informative talk. The event was highly interactive, with participants actively involved in hands-on exercises that allowed them to apply the concepts learned during the session.

The successful organization of the event was made possible through the leadership of Varsha Sujith, the club lead from S7 CS2, and co-lead Kiran Biju from S5 CS1. Their dedication ensured a smooth experience for all attendees. The contributions of other club members were invaluable in managing logistics and facilitating discussions, showcasing the strong teamwork and commitment of the Blockhub Club.

Overall, the event was a success, receiving positive feedback from participants. Many students expressed interest in attending more such events in the future. The club is planning similar sessions as a follow-up.



DISTRIBUTION OF ONAM KITS BY SPARSHAM

Under the "Sparsham" social outreach initiative of the Department of Computer Science and Engineering, a team of students and faculty visited the Jyothis Center in Kumarapuram on September 12, 2024. This center provides care for cancer patients and supports differently-abled individuals, underprivileged elderly individuals, and others struggling with medical conditions. On this day, they distributed Onam kits. The faculty coordinators for this initiative were Ms. Purna B.R. and Ms. Vijitha Robinson, Assistant Professors in the Department of CSE.



NISSAN DIGITAL CERTIFICATE DISTRIBUTION

MBCET has collaborated with Nissan Digital India to design courses that bridge the gap between academia and industry. This partnership enables the college to offer an industry-designed elective course titled "Applied Data Science with Python," which was available in the Sixth Semester (S6) for the B.Tech. 2021 admission batch. On September 27, 2024, Mr. Ramadurai Ram, Divisional General Manager and Managing Director of Nissan Digital India, distributed certificates to the students who completed the course. The event was also attended by Sebastian Ukken, General Manager of the Governance Office at Nissan Digital India, Shyam Unnithan, General Manager of Enterprise Data Management, and Rajesh Vaddi, Data Science Manager at Nissan Digital India.



STAKEHOLDERS MEETING

A PTA meeting for S3 CS1, CS2, and CT was held on September 28, 2024, at 9:30 AM, 10:30 AM, and 11:30 AM, respectively, in the following venues: B201, B203, and B205. During the meeting, parents had the opportunity to interact with Dr. Jisha John, the Head of the Department, along with Class Advisors and Subject Faculty. The agenda included discussions on students' performance in individual subjects and their classroom discipline. Parents' queries regarding student academics and other activities were addressed. Additionally, the meeting focused on students' academic progress and strategies for improving their performance.



CHIEF EDITOR: DR. JISHA JOHN

FACULTY EDITORS: MS. PRATHIBHA S NAIR | MS. VIJITHA ROBINSON

STUDENT EDITORS: MR. FERWIN LOPEZ | MR. JOHAN S VARUGHESE |

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