

MARIAN MOMENTS



Engg. College Code
MCE

An Annual Newsletter of Marian Engineering College, Kazhakuttom

A Trivandrum Latin Archdiocesan Institution

November 2023

VISION OF THE INSTITUTE

To be an institution offering quality technical education and promoting research with strong ethical values for public good

MISSION OF THE INSTITUTE

To mould the young men and women into technologically up to date, socially conscious and morally sound individuals by providing an inspiring environment of learning for the welfare of the society

WELCOME TO THE NEW MANAGEMENT TEAM

MANAGER : Rev.Dr.A R JOHN



Rev. Dr. A R John

Fr. A. R. John is a diocesan priest in the Latin Archdiocese of Trivandrum, Kerala and joined Marian Engineering College and Marian College of Architecture & Planning on 29/05/2023. He did his studies in Philosophy at St. Joseph's Seminary, Mangalore and did his Master degrees in Sociology and Psychology from Kerala and Madras Universities respectively. He was awarded Doctorate in Psychology from Kalinga University. He was ordained into priesthood in 2006. He studied Positive Psychology and Clinical Pastoral Education in USA. He is a playwright and conducts camps, seminars, retreats and other self development programs. He has fourteen books in his credit and his book 'Aarum Anyanalla' was awarded the Book Café Award. He has several articles published in various magazines. He is the Founder of 'Conference of Latin Psychologist'

PRINCIPAL : Dr. M ABDUL NIZAR



Dr. M Abdul Nizar

Dr., Abdul Nizar completed B-Tech in Computer Science and Engineering from University of Kerala in 1989 and M-Tech from Indian Institute of Technology Kharagpur in 1999. He completed his PhD from Indian Institute of Technology Madras in 2011 with specialization in Databases. Dr. Nizar has more than 30 years of experience in teaching and held various administrative positions in different government engineering colleges under the Department of Technical Education, Government of Kerala, the last one being as Dean in College of Engineering Trivandrum. He was also member/chairman of technical committees of institutions like KPSC, Chalachithra Academy, CDAC, Kerala IT Mission, IKM etc. He was also member of Academic bodies of University of Kerala and APJ Abdul Kalam Technological University.

BURSAR : Rev.Fr. JIM CARVIN ROACH



Rev.Fr. Jim Carvin Roach

Fr. Jim Carvin Roach is a diocesan priest in the Latin Archdiocese of Trivandrum, Kerala and joined as Bursar at Marian Engineering College and Marian College of Architecture & Planning on 30/05/2023. He did his Bachelor's Degree in Philosophy at Carmelgiri Seminary, Alwaye and Master's Degree in Philosophy at Indira Gandhi Open University. He was ordained into priesthood in 2019. He has completed his Theological studies from Ateneo Regina Apostolorum, Rome. His areas of interest are Social Service and Financial Management. He has extensive leadership skills and is extensively involved in projects for improving livelihood of fishermen community and motivating community students for excelling in education.

MESSAGE FROM THE MANAGER

Dear Marian Family

It is with immense pleasure and a sense of profound purpose that I extend my warm greetings to each member of our esteemed institution. As we embark on a new academic year filled with possibilities and aspirations, I am honoured to address you. Our institution has long been synonymous with academic excellence and innovation, and it is a privilege to lead a community of bright minds and dedicated professionals. Engineering education is more than the mastery of theories and equations; it is about cultivating problem-solving skills, nurturing creativity, and instilling a sense of responsibility towards society. In an ever-evolving technological landscape, our graduates are not just engineers; they are architects of progress, equipped to address the challenges and opportunities of the modern world. As a community, we are not only committed to academic excellence but also to fostering a rich cultural tapestry. I am proud to be actively involved in the diverse activities that make MEC a hub of creativity and expression. Our curricular events, and extracurricular activities play a pivotal role in shaping the character and worldview of our students.

It is crucial to recognize the importance of engineering education in today's global landscape. Engineers are at the forefront of innovation, driving advancements that impact every facet of our lives. I am excited about the possibilities that lie ahead for MEC. Together, we will continue to innovate, inspire, and create an environment where knowledge knows no bounds. Our journey is not just about producing skilled engineers; it is about nurturing individuals who will contribute meaningfully to the betterment of society.

I extend my sincere gratitude to Dr. Samson A, Dr M Abdul Nizar, Dr. Vijayalekshmy S, Prof. Rajaneesh R Chandran, Heads of all Departments, and all dedicated members who have poured their time and energy into crafting this newsletter. Your commitment to showcasing the achievements, events, and stories that define our community is truly commendable.

Wishing you all continued success and fulfilment in your academic pursuits.

Best regards,

Rev. Dr. A R John
Manager

MARIAN EDU EXPO

The Marian Edu Expo conducted from November 28 to 30 aimed at creating an opportunity for plus two science students the types of projects undertaken in different engineering domains and interact with students in various engineering branches. An insight on the various career opportunities in the different engineering programs were also delivered to the students.



GENESIS 2023

Inaugural Ceremony of 2023-27 B.Tech Batch & launching of Marian Centre of Excellence was conducted on September 7 by Former ISRO Chairman Dr G Madhavan Nair



STUDENT OUTREACH PROGRAM

MEC Student Outreach Program at Christ Nagar School Kowdiar was organised on November 25th



TECHNICAL WORKSHOP

Department of Electrical and Electronics Engineering organised a technical workshop and live demonstration on Retrofitted EV. Resource persons for the workshop were ErSajin Ismail (KSEB), Dr N Rajendran (Innovative Energy Solutions), Sri Shankar RS (RTO, Attingal) and Er Shyam Kumar S (Innovative experience). Students from various engineering colleges of Trivandrum participated in the event.



OXPO 2023

The students from MEC, participated in an Arts & Science exhibition that was held at Oxford International School, on November 15 where they showcased their projects and models that demonstrated some simple engineering concepts.



HANDS ON WORKSHOP

A two day hands-on workshop on “VEGA processors and Ecosystem” was organised by Department of EEE in-association with C-DAC, Trivandrum. Experts from VEGA processors development team of C-DAC being the resource persons, the workshop provided a deep insight into the VEGA processor series and ecosystem. (November 11-12) Around 80 students participated in the program trained by Mr.Sreeju G R, project manager C-DAC Thiruvananthapuram along with 8 other staffs. All students were provided with Aries V2.0 and they programmed themselves to acquire knowledge on processors. A quiz was conducted at the end of the session in which prizes were distributed



by C-DAC authorities. Adithi Ajith from S3E secured the First prize in quiz.

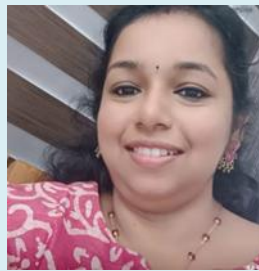
BOARD OF STUDIES, KTU

Dr Rani V (Associate Professor in the Department of Civil Engineering) was selected as member of Board of studies (UG) in APJ Abdul Kalam University



PATENT RECEIVED

Dr Aswathy SU (HoD, AH) received patent for Design of an intelligent surveillance and night patrolling using drone.



Patent No: 202241058460) 2023

FACULTY/STUDENT ACHIEVEMENT

Akshay B and Faisal Seyas S M won the First Prize for poster presentation during the

International Conference on Nanomaterials and Nanotechnology (ICNN 2023) conducted by Visvesvaraya National Institute of Technology Nagpur (VNIT), Nagpur They presented their findings on the topic "Nanoparticles Impregnated PCM For Augmented Thermal Management In Battery Modules" This publication is part of the ongoing ANERT project "Design and fabrication of electric Go-kart with improved cooling technology for battery"

P.I: Dr. Vishnu B. R. (Dept. of Mechanical Engineering)

Co P.I: Dr. Manu Mohan (Dept. of Mechanical Engineering)



MEC ALUMNI

❖ ALUMNI MEET PREPARATORY MEETING

Preparatory meeting for the annual Alumni family Meet 2023-24 was conducted on November 19. Dignitaries from the management of MEC and alumni members participated in the meeting



❖ BACK TO CAMPUS
• ALUMNI INTERACTION

By Mr. Roshan Thomas George (Commissioning Engineer, Windan Performance Engineering, Washington State, USA) (2012 Pass out batch)on



November 24. He has a masters in Mechanical Engineering from University of Illinois at Chicago in 2018.

Talk on Automotive industry and sustainable energy by SM Krishnanunni Marar (2023 Pass out batch), Wattsun Solar Energy PVT Ltd.

Mr. Ajin Thomas, Director of Global Business at POLUS SOLUTIONS, interacted with 2nd year CSE students on 29th November 2023



BHOOMITRASENA CLUB

❖ BEACH CLEAN -UP CAMPAIGN

Mega awareness & beach-cleanup campaign by Thiruvananthapuram municipal corporation in association with CED, Bhoomitrasena Club of Marian Engineering College, Green Worms facilitated by SUSTERA at Shanghumugham Beach, Trivandrum. (November 13)



❖ SITE VISIT TO GREEN BUILDING

Bhoomithrasena club, MEC organised a site visit to the 'Green Building' of Technopark phase-3. Students and faculties from various departments participated in the visit. (November 16)



MEC GREEN CAMPUS INITIATIVES

❖ INAUGURATION

The Green Campus Campaign was inaugurated by Dr. T N Seema, Chairperson, Harithakeralam Mission on 16/11/2023. The

campaign comprises of awareness classes and related activities to obtain Green Campus Status for Marian Engineering College. Green Protocol Committee was constituted with Mr.Abhijith R P, Assistant Professor in Civil Engineering, as Nodal Officer and Coordinator, by College Academic Council, to meet this objective.



❖ FLASH MOB

A flash mob was organized by NSS Unit on 16.11.2023 4:00pm, to propagate the message of Green Campus Campaign to all members of Marian Family.



❖ MEC POND RENOVATION

Awareness class on renovation of pond behind Marian Canteen and subsequent awareness cleaning activity was done under the leadership of Mr.Ullas Innocent Raj, Associate Professor in Mechanical Engineering, on 18/11/2023. Students from NSS unit and Bhoomitrasena Club participated in the program.



❖ **AWARENESS CLASS**

Awareness Class on Sustainable Practices in Solid



Waste Management by was given Mr.Ullas Innocent Raj, to Staff the staff on 20.11.2023 & 21.11.23.

NSS

FOOD DONATION DRIVE

Food Donation drive conducted by NSS Unit, MEC(30-10-23) More than 650 food packets were distributed to the needy ones in the General hospital.

സന്മേഹവിരുണൊരുക്കി മരിയൻ കോളേജ് എൻ.എസ്.എസ് യൂണിറ്റ്

തിരുവനന്തപുരം : കേരളത്തിലെ വിവിധ ഭാഗങ്ങളിലായി നടന്നു വരുന്ന സുസ്ഥിരതയുടെയും സുസ്ഥിരതയുടെയും അടിസ്ഥാനപരമായ കഴിവുകളും ഉറപ്പു നൽകുന്നതിനായി കോളേജിലെ എൻ.എസ്.എസ് യൂണിറ്റ് നേതൃത്വത്തിൽ...

അന്നം എന്ന പേരിലാണ് പൊതിച്ചാണ് സമാഹരിച്ച വിവിധ ഭക്ഷണപദാർത്ഥങ്ങൾ കോളേജിലെ അധികൃതരുടെയും വിദ്യാർത്ഥികളുടെയും ഭരണസഹായത്തോടെ 750-ൽ അധികം പൊതിച്ചാണ് വിതരണം ചെയ്തത്. കോളേജിലെ എൻ.എസ്.എസ് യൂണിറ്റിന്റെ നേതൃത്വത്തിൽ...

കഴിഞ്ഞു മരിയൻ എൻ.എസ്.എസ് യൂണിറ്റിന്റെ നേതൃത്വത്തിൽ നടന്നു വരുന്ന സുസ്ഥിരതയുടെയും സുസ്ഥിരതയുടെയും അടിസ്ഥാനപരമായ കഴിവുകളും ഉറപ്പു നൽകുന്നതിനായി കോളേജിലെ എൻ.എസ്.എസ് യൂണിറ്റ് നേതൃത്വത്തിൽ...

കോളേജിലെ എൻ.എസ്.എസ് യൂണിറ്റിന്റെ നേതൃത്വത്തിൽ നടന്നു വരുന്ന സുസ്ഥിരതയുടെയും സുസ്ഥിരതയുടെയും അടിസ്ഥാനപരമായ കഴിവുകളും ഉറപ്പു നൽകുന്നതിനായി കോളേജിലെ എൻ.എസ്.എസ് യൂണിറ്റ് നേതൃത്വത്തിൽ...



❖ **BLOOD DONATION DRIVE**

Blood Donation Drive “ Rudhira 3.0” was organized by NSS Unit, MEC and Rudhirasena in association with Pol – Blood, Kerala police initiative and Medical College TVM. The drive was inaugurated by His Highness Prince Avittom Thirunal Adithya Varma (10.11.23)



❖ **TREE PLANTING**

On June 8th NSS unit of Marian Engineering College organized a tree planting event in celebration of Environment Day. The event was inaugurated by Bursar Rev. Father Jim Carvin Roach. The initiative commenced with a campus cleaning drive which was conducted on June 7th emphasizing environmental consciousness.

❖ **INDEPENDENCE DAY CELEBRATIONS**

The NSS Unit of Marian Engineering College celebrated Independence Day. The event was marked by the hoisting of the national flag by the Dean, Dr. A. Samson. The celebration also included the recognition of outstanding volunteers, with the Best Volunteer Trophy being awarded to Joshva, the previous Volunteer Secretary, as a testament to the commitment and dedication.

❖ **ONAM CELEBRATIONS**

The Onam celebration at Sun Auditorium, organized under the banner of "Yuva Utsav " on August 22nd witnessed enthusiastic participation from NSS volunteers of Marian Engineering College. The event began with a spectacular flower carpet competition, where our team secured the 1st prize, showcasing creativity and dedication.

Session on Start-up Schemes and Opportunities:

Following the competition, a session on start-up schemes and opportunities was conducted. Renowned speaker K.C.C Nair, the President of the Indian Society for Training and Development, shared valuable insights, enlightening participants on the vast potential in the entrepreneurial landscape.

Meri Mati Meri Dhesh - Mann Ki Baat Experience Sharing:

Continuing the festivities, a captivating session featuring an engaging quiz experience shared by MS Ajay, a student from AJ College. This interactive segment added an educational

element to the celebration, fostering knowledge exchange.

Session on National Educational Policy and Employability for the 21st Century:

Dr. Arun Surendran led an informative session on the National Educational Policy and employability in the 21st century.

The event concluded on a high note with a Nadan Pattu/Onam song competition, bringing the cultural essence of Onam to the forefront. The collective efforts of NSS volunteers from Marian Engineering College made the Onam celebration at Sun Auditorium a memorable and enriching experience, blending tradition, education, and creativity

❖ **HOUSE RENOVATION**

The NSS unit of Marian Engineering College took initiative to renovate the dilapidated home of a 10th-grade student from St. Michael's Higher Secondary School.

NSS volunteers of MEC raised a sum of Rs 1 Lakh to initiate the much-needed renovation process. NSS volunteers undertook the task of refurbishing the house. By the 25th of August 2023, The culmination of this heartwarming endeavor saw the official handing over of the keys to the renovated house to the grateful family, a moment presided over by the College Manager, Rev Father John.

IEDC

❖ **IEDC REBRANDING**



Innovation and Entrepreneurship Development Cell (IEDC) revealed its rebranded identity by manager, Rev. Dr. A R John on June 13. New Logo and Website were launched on the occasion



PERFECT TRAJECTORY

Ajay Basil Varghese, IEDC nodal officer of Adi Shankara College shared the remarkable journey of first-year student Aiswarya Paaramadathil, who pioneered a ground breaking sanitary dispenser machine highlighting her innovative spirit.



❖ **YIP 4.0**

Ameer Al Hisham, Deventhu JK, Amjath S and Alok Krishna of S5CSE have cleared the grand finale and won the title of Young innovators from YIP 4.0 conducted and coordinated by KDISC.



❖ **INCUBIZ**

Startup Incubation Event, held on 6th November 2023 at Marian Engineering College was organized by MEC Accelerator Program. The event featured the esteemed guest speaker Mr. Pramod an esteemed entrepreneur and mentor.



❖ **AI/ML WORKSHOP**

A two-day workshop on Artificial Intelligence and Machine Learning was organised at MEC on August 22nd and 23rd, 2023. The Resource person was Professor Manesh T, a renowned research scholar from the College of Engineering Trivandrum (CET).

❖ **IEDC SUMMIT AT CET**

IEDC members participated in IEDC Summit convened at CET. In its collective brainstorming session, our IEDC members not only contributed their perspectives but also gained valuable inspiration from the diverse array of innovative initiatives happening across colleges.

❖ **VISTLE 2023**

Vidhya College hosted IEDC State-Level Entrepreneurship Summit 2023, named 'VISTLE.' IEDC members MEC creating a participated in this dynamic platform for collaboration, innovation, and knowledge exchange.

INDUSTRY INSTITUTE COLLABORATION

❖ **MOU with GEONYMPHS ACADEMY**

MEC signed MOU with GEONYMPHS ACADEMY on November 1. This will facilitate collaborative teaching and learning. Mr Sajulal G represented on the behalf of the academy.



❖ **MOU with HABLETE LEARNING SOLUTIONS PVT LTD.**

MEC signed MOU with HABLETE LEARNING SOLUTIONS PVT LTD on November 1. Managing Director Dr Kishore P represented on the behalf of the institute.



❖ **MOU with SHANOOR HOMES**

MEC signed MOU with SHANOOR HOMES on November 1. Managing Director Mr Nizar Ahmed and Mr Renjith represented on the behalf of Shanoor Homes.



❖ **MOU with CADD CENTRE IEEL**

MEC signed MOU with CADD CENTRE IEEL on November 1. Centre Head Mr Sarath Mohan represented CADD Centre. This will facilitate collaborative teaching and learning.



❖ **INDUSTRY BASED EXHIBITION**

An Industry based exhibition was organised by IEI & ASCE student chapter of Marian Engineering College at Material testing lab by Cera-chem Pvt Ltd, Shanoor homes pvt Ltd and by the Berger paints India Ltd. (October 8)



CGPU

❖ **WORK READINESS PROGRAM**

Work Readiness Program by ASAP Kerala and KKEM 27.10.2023 - 31.10.2023.



Aptitude Training by Pragmatix 04.08.2023 - 05.09.2023 (10 days). **Coding Training** by Progressum 14.08.2023 - 18.08.2023) **TCS CodeVita Training** by TCS 13.11.2023. **Softskill Training**, Advantage U by TalentEase 16.11.2023 & 20.11.2023

community member of GTech µlearn and core team member of the µlearn-Web Team, and has a major part in making the wonderful website



<https://mulearn.org/>

PRIZE FOR CULTURAL & SPORTS EVENTS

❖ **FACE OF LA TARANG**

Joan Liz Geogy (S5CSE) emerged as the first prize winner at the prestigious 'Face of La Tarang' event hosted at Loyola College.



❖ **QUADRILLE – CHOREONIGHT**

Gayathri R, Asna Khan (S6CSE), Mrinal Sharma Suhana Sudheer, Suhail, Neha Gomez, Aadithya Rakhi Biju, Gouri K Ani (S4CSE) and Abhiram Krishna A (S2CSE) got first prize for Quadrille-choreonight, conducted by St. Thomas Institute of Science and Technology on 27/04/23.

❖ **PRIZE IN FASHION SHOW**

Ferhan Salim, Ananya Kurian (S8CSE), Joshua Edison, Nikhil Francis, Adithya Manoj (S6CSE) and Sahami Shah (S4CSE) secured first position for Fashion Show conducted by College of Engineering Attingal on 02/04/2023, John Cox Engineering college on 05/04/2023 and Mar Baselious College of Engineering on 12/05/2023 and got second prize from Lourde Matha College of Science & Technology on 26/04/2023.

❖ **FOOTBALL TRAINING IN SPAIN**

NIthin Richard of S7 CSE got Selected from Chennai Football Club Press Pro Academy to go to Spain for one month football training



❖ **REPRESENT INDIA IN INTERNATIONAL SPORTS EVENT**

S. R Mohammed Asaf of S5 CE to represent India in the student category for the 28th World Congress of The Association for International Sports for All (TAFISA) for a poster presentation on “Knowledge and Expertise - Qualifying the Next Generation of Sport for all leaders”. (Nov 9)



INDIA BOOK OF RECORDS

Aswin Asok of S4CSE was appreciated in INDIA BOOK OF RECORDS 2023 for typing 117 English words on a computer in one minute with 87.6% accuracy using an app, as confirmed on July 19, 2023. And he is a



INDIAN GEOTECHNICAL SOCIETY STUDENTS CHAPTER (IGS), AMERICAN SOCIETY OF CIVIL ENGINEERS(ASCE) & INSTITUTION OF ENGINEERS INDIA(IEI) ACTIVITIES

❖ INAUGURATION OF ASCE STUDENTS CHAPTER

Inauguration of 2023-24 activities of ASCE student chapter September 29.



❖ TEACHERS DAY CELEBRATIONS

Ms Anamy J B of S7C2 shared inspirational stories of exceptional educators. Inaugural address was by the Head of Civil Engineering Department, 4 Dr. Narayanan which was then followed by the felicitation delivered by Assistant Professor, Mr. Abhijith R P. The event concluded with a vote of thanks by Krishna M S of S7C1.(Sept 5)



❖ INAUGURATION OF IGS STUDENT CHAPTER

On 11th October 2023, Marian Engineering College celebrated the inaugural ceremony of Indian Geotechnical Society Student Chapter. The event began with a prayer and a welcome address delivered by the Head of Civil Engineering Department, Dr. Narayanan S, followed by the lighting of the lamp by the chief guest, Dr. Sheela Nair. The ceremony proceeded with a presidential address by, Dr. A. Samson, the Principal.



❖ EXPERT TALK

The session on ‘ Coastal erosion, control measures and geotechnical aspects’ was delivered by Dr. Sheela Nair , Scientist G and Head , Marine Geoscience Group , National Centre for Earth Science Studies, MOES. (October 11)



❖ FIELD VISIT KERALA STATE NIRMITI KENDRA TRIVANDRUM

Conducted a field visit to Kerala's groundbreaking 3D printed building, a pioneering venture in the construction industry for S3,S5,S7 & Mtech students. S3 and S5 visited on 27th October 2023 and S7 and Mtech students visited on 1st November 2023.



❖ SITE VISIT - SPT TEST AND PILING

60 students from S5C attended a one-day industrial visit on 27/10/2023. The visit



included sessions on standard penetration test (SPT) on a site at Kazhakkootam, piling test

conducted by favorite homes on their site at karikkakom.

❖ **FIELD VISIT - WATER TREATMENT PLANT ARUVIKKARA, TRIVANDRUM**



Field visit to water treatment plant , Aruvikkara was visited on 8th November 2023 by S7 & Mtech students. The main purpose for this visit was to give practical knowledge about how raw water is treated and how water is distributed in different villages.

❖ **FIELD VISIT - SOIL MUSEUM, TRIVANDRUM**



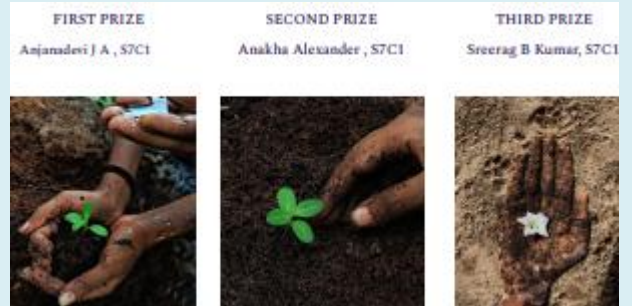
S3C & Mtech students visited the Kerala Soil Museum on 15/11/2023. Kerala Soil Museum is a museum on the premises of Central Soil Analytical Laboratory at Parottukonam, Thiruvananthapuram. During the visit, an expert guide provided a comprehensive tour, explaining the importance of soil conservation and sustainable practices

❖ **PHOTOGRAPHY CONTEST - WORLD SOIL DAY**

A photography competition was conducted on 5th December 2023 as a part of World Soil Day

with the theme ‘ SOIL, WATER - A SOURCE OF LIFE’. Anjanadevi J A of S7C1 got first prize, Anakha Alexander of S7C1 got second prize and Sreerag B Kumar of S7C1 got third prize

❖ **POSTER MAKING COMPETITION -**



WORLD SOIL DAY

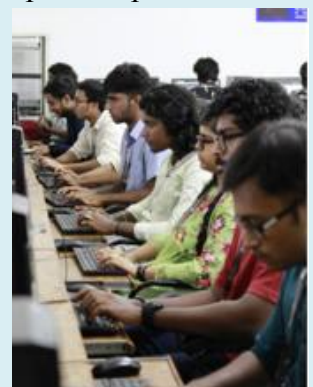
The poster making competition organised on 5-12-23, on the "Importance of Soil Conservation" aimed to raise awareness about the critical role soil plays in our ecosystem and the need to preserve it for future generations. , Sweety Thadeous of S7C1 got first prize, Amritha A V of S7C1 got second prize and Bizna S of S7C1 got third prize



IEEE SBC ACTIVITIES

❖ **AI ARTATHON**

AI Artathon is a workshop + competition event conducted by IEEE SB MCE on 27-04-2023 as a part of Tejvasi Techfest 2023 of Marian Engineering College. It is a Generative image-based event where participants are taught to create beautiful AI-generated Images.



❖ **TYPING TITANS**

Typing Titans is a typing competition conducted by IEEE SB MCE on 27-04-2023 as a part of Tejvasi Techfest 2023 of Marian Engineering College.

IEEE PES SBC ACTIVITIES

❖ **ROBOTICS WORKSHOP**

IEEE PES MCE SBC, in collaboration with Tejasvi 2023, conducted an intercollege Robotics Expo and workshop as part of the tech-fest at Marian Engineering College on



April 27, 2023. The event also had exhibitions, interactive displays, and presentations on the field of Robotics. Crinnolab RobotX coordinated the session for the students. Mr. Roshan conducted the class and presented a hands-on experience on Robotics

❖ **AADYA 2.0 IDEATHON**

AADYA 2.0 Ideathon competition, was held from May 15th to May 31st, 2023, with a

focus on the theme of "How to ensure women's safety through technical innovation." The event aimed to harness the power of technology to address the crucial issue of women's safety in our society.



❖ **POWER QUIZ 2023**

IEEE PES MCE SBC in association with KSEB is conducted "POWER QUIZ 2023" at Marian Engineering College on 21st November 2023.. Around 113 students

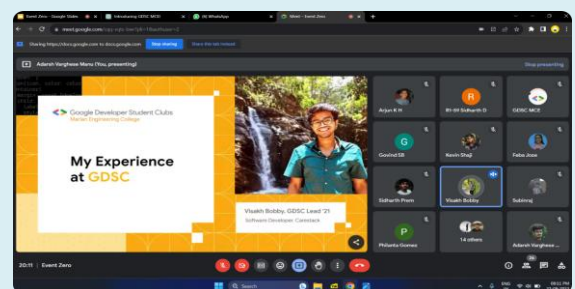
attended the event . This was an individual event. First Prize : ALISHA H. (S5ECE) Second Prize : GOURI R SAJU. (S5ECE)



GOOGLE DEVELOPER STUDENTS CLUB

➤ **EVENT ZERO**

GDSC started with "Event Zero" on August 27, 2023. Led by Mr. Adarsh Varghese Manu, the event provided a comprehensive overview of GDSC's potential benefits.



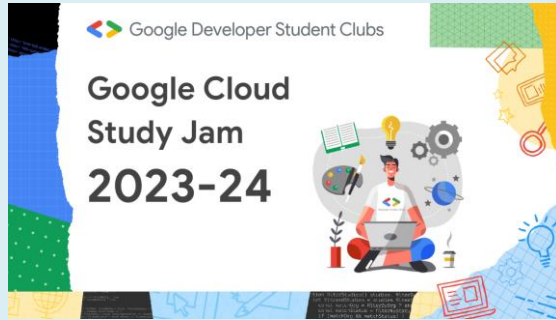
➤ **CYBERVERSE**

On September 16, 2023, GDSC organized CyberVerse. Geo Mathew Joseph, a cybersecurity analyst and core GDSC team member, delivered an insightful keynote, covering topics such as mobile security, cloud security, and operational security,

➤ **CLOUD STUDY JAM**

In September 2023, GDSC conducted Cloud Study Jams, a dynamic month-long initiative introducing students to Google

Cloud Platform. The event was guided by Feba Jose.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

❖ **PUBLICATION : Dr ASWATHY SU**

- ELECTRONICS, MDPI Q1: Detecting Plant Disease in corn leaf using efficient Net Architecture- An analytical Approach, 2023 (SCIE)
- ELECTRONICS, MDPI Q1: Deep Learning-Based BoVW–CRNN Model for Lung Tumor Detection in Nano-Segmented CT Image. 2023 (SCIE) **Dr. ASWATHY S U** was the Resource Person.
- Delivered a talk on short term training program on “ *The AI Revolution: Introduction to Future of Intelligent System*” Conducted by Department of Computer Science and Engineering, SRM University, Tiruchirapally Campus on 25-07-2023

❖ **RECOGNITION /PANEL MEMBERS - Dr ASWATHY S U**

- Organizing Committee member for the International Conference series (SoCpar 2021, IAS 2021, HIS 2021, NaBIC 2021,IBICA 2021,WICT 2021,ISDA 2021) held by MirLab, Auburn, Washington,USA (2023).
- Appointed as Editorial Assistant in the journal with impact factor 6.6, Engineering Applications of Artificial Intelligence (EAAI) at Elsevier.(2022-2023).

❖ **EDITORIAL PANEL IN JOURNALS (Dr. ASWATHY S U)**

- EDITORIAL Board Member: Journal of Artificial Intelligence and Big Data

- Deputy-Editor-in-Chief: Journal of Applied Engineering and Science (JAES)

DEPARTMENT OF CIVIL ENGINEERING

❖ **PHD AWARDED**

Dr Rani V was awarded DOCTOR OF PHILOSOPHY under the Faculty of Engineering from Cochin University of Science & Technology (CUSAT) valid from October 5th 2023.



FACULTY AS RESOURCE PERSON

- **Dr. Rani. V**, Civil Engineering department, MEC successfully delivered a lecture on “Pollution Assessment of Field Contaminated Soil” for the 29th Er. S K Sundram Memorial Lecture in connection with 76th Annual General Meeting at the institution of Engineers Hall, Visveswaraya Bhavan, Trivandrum.(Nov 3).
- **Dr. Rani V** was speaker in Managalam College of Engineering on the topic Climate change and it's challenges ahead on May 20th 2023
- **Dr Rani V** was speaker in Mangalam College of Engineering on the topic Dam safety measures on 27-6-23
- **Dr Rani V** was reviewer in 3rd International conference on innovatve trends iamd sustainability organised by Toc H Institute
- **Mr. Kannan K** was Technical Program Committee Member and Reviewer for Congress on Smart Computing



Technologies organised by South Asian University Center for Research and Innovative Learning, December 2023

- **Mr. Kannan K** was Technical Program Committee Member and Reviewer for 2nd Int. Conf. on Advances in Data-Driven Computing and Intelligent Systems (ADCIS 2023), organised by BITS Pilani, Goa Campus.
- **Mr. Kannan K** was Technical Program Committee Member and Reviewer for 5th Int. Conf. on Sustainable and Innovative Solutions for Current Challenges in Engineering and Technology (ICSISCET2023), organised by Madhav Institute of Technology and Science, Gwalior

❖ **BEST PAPER AWARD**

- **Dr Rani V** received the best paper award for her paper ‘Experimental Evaluation of erosion degree of Menamkulam Coastal region’ in International conference of Advancements and Recent trends in Civil Engineering in ICART 23

❖ **PAPER PUBLICATIONS**

- **Ms Resmy D S** – ‘Analysing the ambient air quality along the congestion spots of urban corridors’ International Conference on Innovations in Engineering, Science and Technology for Sustainable Development 15 to 17 November 2023 The Maldives National University, Male’, Maldives (ICEST 2023)
- **Ms Greeshma T** - ‘Analysing the ambient air quality along the congestion spots of urban corridors’ in International Conference on Innovations in Engineering, Science and Technology for Sustainable Development 15 to 17 November 2023 The Maldives National University, Male’, Maldives (ICEST 2023), ISBN 978-99915-78-25-5
- **Mr Kannan K** – ‘Improvement in Plasticity and Strength Characteristics of Kuttanad Soil using Enzyme Induced Calcite Precipitation,’ International Journal

for Research in Applied Science & Engineering Technology, May 2023

- **Mr Kannan K** – ‘Evaluating the Feasibility of using Construction and Demolition Waste in Subgrade’, International Journal for Research in Applied Science & Engineering Technology, April 2023
- **Mr Kannan K**- ‘Reusability of Construction and Demolition Waste in Pavement Subgrade’, Proc. of Int. Conf. on Innovative Methods and Practical Applications for Cognizant Transportation Systems (IMPACTS 2023), CET,
- **Mr. Kannan K** – ‘A Review on Stabilisation of soil using Biological Soil Improvement Techniques,’ International Journal of Engineering Research & Technology, January 2023
- **Dr Rani V** – ‘Pollution Assessment of Poonthura Soil’, International Journal for Research trends and Innovation ,IJRTI, Volume 8, Issue 4, ISSN 2456-3315
- **Dr Rani V** – ‘Pollution Assessment of Vellayani soil’, International Journal of Creative Research Thoughts, IJCRT, Volume 11, Issue 4
- **Dr Rani V** – ‘Remediation of Poonthura Soil using Fly Ash’, International Conference of Advancements and Recent trends in Civil Engineering organised by Department of Civil Engineering on 2nd and 3rd June 2023 at Mangalam College of Engineering ,Kottayam, Kerala (ICART 2023)
- **Dr. Rani V** – ‘Experimental Evaluation of the erosion degree of Menamkulam Coastal Region’, International Journal of Engineering Research and technology, IJERT ISSN 2278-0181, ICART 2023
- **Dr. Rani V** – ‘Assessment of Coastal erosion using Plaxis 2D’, International conference on sustainability ,Resilience 360 Organised by Providence College ,Chenganoor

➤ **Dr. Rani V** – ‘Experimental Evaluation of the erosion degree of Menamkulam Coastal region’, International Conference of Advancements and Recent trends in Civil Engineering organised by Department of Civil Engineering ,Mangalam College of Engineering ,Kottayam,Kerala ,India (ICART 2023)

❖ **Dr. Rani V** – ‘Numerical Assessment of Shore Protection’, International Journal for Research trends and Innovation ,Volume 8,Issue 4,ISSN 2456-3315

PRECOLLEGE OUTREACH PROGRAM

Pre-College outreach programme on April 26, 2023. Speakers on the occasion were Sri Vinod Vaisakhi (Malayalam Mission Registrar, Govt. of Kerala) and Er. Anil Kumar R S (Chief Engineer, LSGD, Govt. of Kerala)



❖ **EXPERT TALK**

• **Technical talks from building industry**



DATE : SEPTEMBER 29, 2023

Talks on:

1. Renjith Krishnan - Innovations in construction

2. Radhamadhavan M.K - Overview of paints - Berger Paints
 3. Er Remesh Krishnan - CERachem Private Limited

• **Technical talk by Professor Titus P**

Date of technical session - October 13, 2023
 Topic : Rational and Empirical Approach on Morality and Ethics.

• **Technical talk on “Theory and Practice of Geotechnical Engineering**

Dr N.Unnikrishnan

Date of session - 18 September, 2023



FIELD VISIT

Field visit to Steel Flyover bridge construction at Chirayinkeezhu railway station

Date of visit - October 11, 2023 – Forenoon



❖ **FDP, WEBINAR, SEMINAR, LECTURE ATTENDED/PARTICIPATED**

➤ **Ms Resmy D S** attended webinar on Traffic Emissions in Urban Areas and Challenges towards Sustainable Cities" scheduled from 11th to 15th December 2023 organized by the Department of Civil Engineering, NIT Warangal.

➤ **Mr Kannan K** participated in IGS Technical Webinar on Issues and Challenges with Tunnelling and Underground Space Construction in India on 4th October 2023 organised by IGS Kochi Chapter

- **Mr Kannan K** participated in National Seminar on Modern Geotechnical Practices and Prof. T. S. Ramananatha Ayyar Lecture 2023 on 3rd Feb, 2023 organised by Indian Geotechnical Society (IGS) Thiruvananthapuram Chapter and College of Engineering Trivandrum
- **Mr Kannan K** participated in the 2nd Annual Commemorative Lecture in memory of Dr. T. K. Gopalakrishnan Nair on 15th September 2023 organised by LBSITW Trivandrum in association with TC 107, International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
- **Dr Rani V** attended Workshop on Sustainable Geotechnical solutions for Problematic Soils and Disaster management organised by IGS Calicut, Kochi, Thiruvananthapuram Chapter in association with Department of Civil Engineering, School of Engineering, CUSAT on 17th and 18th November 2023
- **Ms Magi N S** attended online FDP on Research methodology using ChatGPT and AI tools at Marian Engineering College, Kuttikanam on 21-29 September

Sponsored FDP on- 'Industrial IoT and Cyber Physical Systems' on 11.04.23.



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

❖ INHOUSE INTERNSHIP PROGRAM

Two internship programmes were conducted in collaboration with ICT academy related to “Full Stack Development” and “Machine Learning & AI” on May 2023 for interested students from first, second and third year, under the coordination of Prof. Keerthi Krishnan



❖ KTU SPONSORED FDP

KTU sponsored the FDP on “Industrial IoT and cyber physical systems” was conducted on April 2023 coordinated by Dr. Sheeja Agustin, Professor, Dept. of CSE. Dr. Rajasree M. S, Senior Joint Director of Directorate of Technical Education inaugurated the KTU

❖ PROJECT EXHIBITION ON SUSTAINABLE ENERGY & CONSERVATION

A two day " Project Exhibition " on Sustainable Energy and Conservation was conducted at CS department, Marian Engineering College on 30/10/2023 and 31/10/2023. - Inaugurated by: Mr. Ullas Innocent Raj (Associate professor of Mechanical Engineering Department). He flagged off the event after an inspirational sustainability speech.



EXPERT TALK

Talk on “Full Stack Framework and Career Guidance” was delivered by Networkz Systems as an activity for 2nd and 3rd year students on April 2023.





❖ ASSOCIATION ACTIVITIES

➤ HUSTLE –TREASURE HUNT

Event was conducted by Marian Association of Computer Science (MACS). The event was held as a part of the Intercollegiate Tech Fest on the 27th of April, 2023

➤ ASSOCIATION INAUGURATION

Inauguration of Department Association MACS 2023-2024 on 9th October 2023. Inauguration by MS.Deepa Nair, Senior Manager Human Resource, 6D Technologies. Invited talk by Ms.Aswin P Chandran, CEO, Simple Logic Solutions Pvt Ltd. Talk on "Multiple Avenues in IT Industry".



❖ FOSS CELL ACTIVITIES

FOSS cell organized the "Under the HOUR" programming event on November 24, 2023. The event received 34 registrations from various departments and aimed to encourage students to develop an interest in Data Structures and Algorithms (DSA) and competitive programming. The contest took place on the HackerRank platform, with a custom question set created by Aasish Raj R R , s5r1 student and hosted by Govind S B of S5R1. Participants had one hour to solve the problem.

The top three winners were Arjun J (S3 AH ,first place), Shibin Sha (S3R1, second

place), and Abhijith Jayakumar (S3AH ,third place). The first prize included a cash reward and all top three contestants received a T-shirt.

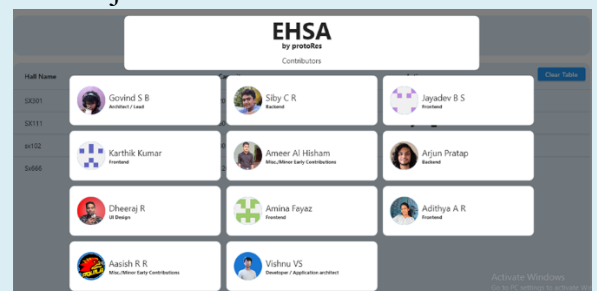


❖ STUDENT FUNDED PROJECT

S Praneel,Akhil Krishna U, Athul S George, Ananya Kurian of S8 CSE got financial assistance of 50,000 for their project ‘Web Accessible –Video Conferencing App with sign language recognition system’ and their principal investigator is Dr. Sheeja Agustin.

❖ INTERNAL EXAMINATION MANAGING SOFTWARE

Students of CSE department developed an Internal Examination Managing Software under the guidance of Ms.Swapna H and Ms.Reeja S L.



❖ FACULTY ACHIEVEMENTS

➤ Ms. Keerthi Krishnan and Ms.Reeja S L successfully completed NPTEL Online Certification on “Programming in C” with

“Elite” certificate in the NPTEL exam on April 2023

- Ms.Dhanya L Successfully completed the online NPTEL Certification on April 2023 in Introduction to Internet of Things of IIT Kharagpur.
- Ms. Keerthi Krishnan and Mr. Milan Harish (student from S3R2) attended workshop on "Space and Entrepreneurship" as part of world space week 2023. Our proposal got shortlisted and we got the invitation to attend the event as a delegate



❖ PAPER PUBLICATIONS

- Visakh Bobby, .S Praneel,Gokul Krishna S,.Athuljith A S of S8CSE and Ms.Reeja S L presented a paper EBICS: Even Blind I Can See, A Computer Vision Based Guidance System For Visually Impaired on 2023 International Conference on Control, Communication and Computing on 19-21 May 2023 and they also published the paper in IEEE Xplore on 04 July 2023.
- Ashley Titus,s, Mahesh U S of S8 CSE and Dr,Mercelin Francis presented a paper DeepWeight: A Semi-Autonomous Food Weight Billing System using Deep Learning on, 2023 International Conference on Control, Communication and Computing (ICCC), College of Engineering, Trivandrum.
- S Praneel,Akhil Krishna U, Athul S George, Ananya Kurian of S8 CSE and Dr.Sheeja Agustin Presented a paper in 2023

International Conference on circuit power and computing technologies.

- Ms.Hema. S. Mahesh presented a paper"A Survey Paper on Adenocarcinoma Detection Using Deep Learning Methods," 2023 International Conference on Innovations in Engineering and Technology (ICIET), Muvattupuzha.
- Ms.Ann Mathew presented a paper “ A Study of Pulmonary Nodule Detection in CT Images Based on Deep Learning” International Conference on Emerging Technologies in Engineering and Applied Sciences(ICETEAS2023) at Noorul Islam Centre for Higher Education on 12th and 13th April 2023.

❖ INDUSTRY INTERACTION

Students from S7R1 had a project discussion with the technical persons in NISH, Trivandrum on October 2023



❖ FDP/BOOTCAMP ATTENDED

- Dr. Mercelin Francis and Ms. Keerthi Krishnan attended Faculty Development Program on Cyber Security, initiated by National Cyber Security Research Council on 18th October 2023 at CUSAT, Kerala.
- Ms. Nisha J R attended the Bootcamp on Machine Learning with Tensor Flow on 18th November 2023 organized by ICT Academy of Kerala.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

❖ EXPERT TALK

➤ CAREER UPSKILLING

An interactive session on “How to advance career through upskilling”.with speaker Dr. Rahul Satheesh, Senior Engineer-Bosch Global Software Technologies was conducted on April 25. The session was completely thought-provoking for all who aspires to make career upskilling.



➤ **ENERGY AUDIT**

Expert Talk on 'Energy Audit' by Er. Suresh Babu BV- Energy Auditor, Ottotractions on 9/10/23 in EEE Seminar Hall.



➤ **SPACE – UNLIMITED EXCITEMENT**

Er. R Gifty Ernestina Benjamin, Scientist VSSC gave a talk titled Space – unlimited experience on 27-10-2023 in EEE Seminar Hall. The talk was well appreciated by the attendees.



❖ **INDUSTRIAL VISITS**

➤ **TRANSFORMER & METER REPAIRING (TMR), KSEB THIRUMALA**

Industrial Visit to Transformer & Meter Testing & Repair Unit by S5 & S3 EEE students on 12/10/2023



➤ **110 KV SUBSTATION – KSEB, THIRUMALA**

Industrial Visit to 110kV substation, Thirumala by S5 & S3 EEE students on 12/10/2023



➤ **KAKKAD POWER PLANT -KSEB**

Industrial Visit to KSEB Kakkad Power plant, Pattanamtitta by S3, S5 & S7 EEE on 17/11/2023.



❖ **VIDYUTH - ASSOCIATION ACTIVITIES**
➤ **ASSOCIATION DAY**

The VIDYUTH Association Day was held on 25 April 2023 at EEE Seminar Hall, Chief Guest on the occasion was Dr. Rahul Satheesh, Senior Engineer-Bosch Global Software Technologies. Felicitation ceremony for the top rank holders for current and previous semester KTU university exams were distributed to the students by Manager Wilfred E.



➤ **CODE THE RESISTOR**

As part of Tech Fest on 27/4/23, VIDHYUTH conducted a program named CODE THE RESISTOR where participants are required to write the colour of the given resistor.



alumni of MEC - EEE 2021 batch. He took MTech (Guidance and Navigation Control) from CET. (27th April)



➤ **POWER QUIZ**

VIDYUTH as part of TEJASVI 2023 hosted a general quiz competition named VIDYUTH POWER QUIZ ON 27th April. Quiz master for the event was Mr. Abel George.



➤ **STIGMA – PERIOD PAIN STIMULATOR**

VIDYUTH as part of TEJASVI 2023 organized a social experiment where men were able to understand what women undergo every month. Period pain stimulator is an electronic device that recreates pain levels experienced by women during menstrual cycle. (27th April)



➤ **SOLDER MANIAC**

VIDYUTH as part TEJASVI 2023 hosted a soldering competition named Solder Maniac on April 27.



➤ **VIDYUTH - ASSOCIATION INAUGURATION (2023-24)**

The Activities OF VIDYUTH of 2023 -24 was inaugurated by Er. R Gifty Ernestina Benjamin, Scientist VSSC on 27-10-2023 in EEE Seminar Hall. The presidential address on the occasion was delivered by Principal Dr Samson A. Prizes were given to students of S3, S5 and S7 who got more than 8 cgpa in KTU examinations. Also prizes were given to winners of Design of Association Logo and Poster Design Competition.

➤ **MATLAB MATRIX LABORATORY WORKSHOP**

As a part of Marian Tech Fest, conducted a workshop named MATLAB MATRIX LABORATORY WORKSHOP. The resource person was Mohammed Akshay, Software Engineer, BOSCH. He is an

❖ **FACULTY ACHIEVEMENT**

➤ Dr Vijayalekshmy S was selected as



Reviewer in the Journal Solar Energy (Elsevier).(2022-2023. 2023-2024).

➤ Dr Vijayalekshmy S has a total of 347 google scholar citations for her published research papers since 2016. Her paper titled ‘ A novel Zig-Zag scheme for power enhancement of partially shaded solar arrays’ published in the Journal of Solar Energy has 176 citations since 2016. Her google scholar h-index and i-10 index are 9 &9 respectively.

❖ **WORKSHOP/MEETING ATTENDED**

➤ Ms Geena Suresh attended workshop on Renewable energy and Energy Technologies held on 6th October 2023 at Energy Management centre.

➤ Dr Vijayalekshmy S participated in collaborative meeting with Principals, Heads of Departments and Professors of Engg Colleges I TVM organized by Kerala State Regulatory Commission (KSERC) at TVM on June 22.

❖ **PAPER PUBLICATION**

Hiranmayee.G, Ajeesh A Nair, Adarsh Pramod, Amalu B S Dept of Electrical and Electronics Engineering Marian Engineering College, ‘Design And Fabrication of Ecorobotic Agricultural Machinery’, International journal of Creative Research Thoughts(IJCRT), Volume 11, Issue 8 August 2023 | ISSN: 2320-2882.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING & DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING

➤ **HANDS ON WORKSHOP – ARDUINO**



Workshop on Arduino for 2022-2026 ECE and ES students on 13th and 14th November, 2023.

➤ **IOT, AI &ML**

The event “2 - day hands on workshop of IoT, AI &ML”, by Electronics association in collaboration with Inspira Marian IEDC was held on 11th and 12th April, 2023. At the UST Sponsored Lab of ECE Department



❖ **TECH EXPO**



On 26th June, Department of ECE organized an exciting and informative Project Exhibition 'Tech Expo' at Project Room of the department.

❖ **EXPERT TALK**

➤ **DSP AND ITS APPLICATIONS**

Expert Talk DSP and its Applications by Prof. Parvathy V S, Assistant Professor, Dept of ECE, LBSInstitute of Technology for Women was held at ECE Seminar Hall on 31st October, 2023.



➤ **CAREER BUILDING THROUGH INTERNSHIP PROGRAMS**

On 11/04/2023, a talk on "Career Building through Internship Programs" was organized. The speaker was Dr. Sreejith B. J, Assistant Professor, Dept. of Mechanical

Engineering, SCT College of Engineering, Former assistant director of KTU.



➤ **TELECOM 360 FOR CAREERS/ RESEARCH IN TELECOM**

Expert Talk on "Telecom 360 for careers/ research in Telecom, Speaker – Mr Renju John. Research Associate (A-Star) November 21.



❖ **INDUSTRIAL/CAMPUS VISIT**

➤ **UST**

A campus visit to UST was conducted. CoE students visited UST and interacted with the resource persons from the company and got an insight on company functioning & project execution.



➤ **KOODAMKULAM NUCLEAR POWER PLANT**

Industrial Visit to Koodamkulam Nuclear power plant on 18th November 2023



various organization, 29 students were placed in various companies. UST hired 16 students from the second batch itself. Offer letter distribution ceremony held on 13th July, 2023.



❖ **CLUB FOR SPECIALLY ABLED**

AUXILIUM, a club for Special Abled was inaugurated by the students of 2020-2024 ECE final year students on November 14th, 2023. Senior Scientists from NISH has graced the occasion through various Assistive Technology demonstrations.



❖ **STUDENT ACHIEVEMENTS**

➤ An Institution level Campus-wide Offline Hackathon ‘HackX’ was organized by IEDC, MEC for the Marian students as a platform for young innovators to showcase their talents. Team of First year, Second year and Third year students of ECE won the 1st and 2nd runner up.



➤ Nazia NJ (2020-24 batch0 & Fiza Akbar (2021 -25 Batch) selected as Research interns for the Project IOT Based Smart Crib at A STAR-TELECOM 360.

❖ **ASSOCIATION ACTIVITIES**



The Inaugural ceremony of Electronics Association was served by Dean Dr.A Samson AND Gokul M.Anil (Chief Guest of the Day, 2015-2019 ECE)

❖ **CENTRE OF EXCELLENCE**

As a result of enhanced skill sets, students enrolled in CoE are easily getting placed in



❖ **PAPER PRESENTED/ PUBLICATIONS**

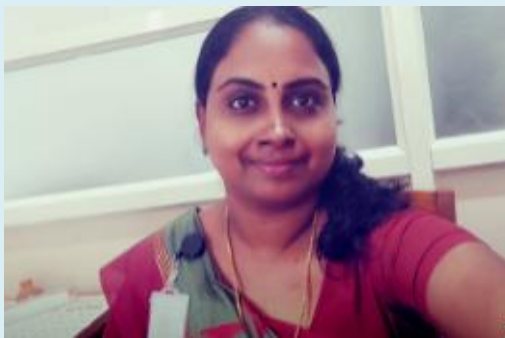
- **Minnu Jayan C** (AP,ECE) ,presented and published, a paper entitled “A Survey on the Control Techniques used in Process Control”, in IEEE International Conference on Innovations in Engineering & Technology (ICIET-2023) at Ilahia college of engineering & Technology Muvattupuzha on 13th and 14th July, 2023. Proceedings of 2023 IEEE International Conference on Innovations in Engineering & Technology (ICIET-2023)
- **Minnu Jayan C** (AP,ECE) , presented and published a paper entitled “A Review on Various Control echniques used in Industries”,in International Conference on Emerging Technologies in Engineering and Applied Sciences(ICETEAS 2023) , Noorul Islam Centre for Higher Education, Kumaracoil on 12th and 13th April 2023. Proceedings of International Conference on Emerging Technologies in Engineering and AppliedSciences (ICETEAS 2023).
- **Minnu Jayan C** (AP,ECE) , presented a paper entitled RIPRESO: ELEPHANT PROTECTION SYSTEM AGAINST COLLISION WITH TRAINS, International Conference on Advanced Wireless Communication and Pervasive Technologies (ICAWCPT -23) ,MBC CET, Peermade on 25th and 26th May, 2023.
- **Ms. Vinitha B Elza** (Asso.P,ECE), presented and published a paper entitled ‘Perspective on machine learning based investigated materials to realize Stable-Efficient-Toxin free(S-E-T) perovskite solar cells’ ,in International Conference on Materials and Sustainable Manufacturing(ICMISM -23), Vishnu Institute of Technology, Andra Pradesh on 16th and 17th Dec 2022. She also presented paper entitled ‘Numerical Analysis for Thermal Stability Evaluation of Perovskite Solar Cell using SCAPS-1D’, in 7th International conference on Nanoscience and Nanotechnology (ICONN -2023) ,SRMIST DURING MARCH 27-29 ,2023
- **Ms. Ramola Joy P.**(Asso.P, ECE), presented paper entitled “A Review on Retinal Disease Detection Methods using CNN from Fundus Image of the Retina”, in the International Conference On Emerging Technologies in Engineering and Applied Sciences (ICETEAS 2023) on 12th and 13th April, 2023 organized by Dept. of ECE, NICHE, Kanyakumari.
- **Ms. Ramola Joy P.**(Asso.P, ECE), presented paper entitled “A Comparative Study on Machine Learning Based Retinal Disease Detection Using Retinal Images”, in the International Conference On Advanced Research in Information and Communication Technologies (ICARICT 2023) on 19th and 20th April, 2023 organized by Dept. of CSE and ECE, JP College of Engineering , Tenkasi.
- **Ms. Subha P.S** (Asso.P, ECE), presented paper entitled “A Review on ECG Signal Denoising Techniques”, in the In the International Conference On Emerging Technologies in Engineering and Applied Sciences (ICETEAS 2023) on 12th and 13th April,2023 organized by Dept. of ECE, NICHE, Kanyakumari.
- **Ms. Subha P.S** (Asso.P, ECE), presented paper entitled “Analysis of ECG Signal Denoising Techniques”, in the International Conference On Advanced Research in Information and Communication Technologies (ICARICT 2023) on 19th and 20th April, 2023 organized by Dept. of CSE and ECE, JP College of Engineering , Tenkasi.

❖ **FDP ATTENDED**

- Ms Preetha S.L and Ms.Simi M.S has attended an FDP ‘Artificial Intelligence & Machine Learning for Image Analysis - Matlab and Python perspective’ Organized by the Dept of ECE, CMR Institute of Technology, Bengaluru from 8.5.23 to 13.5.23
- Ms. Vinitha B Elza, has participated in ‘VLSI to system design:Silicon to End Application Approach’ organized by AICTE and Arm Education and STMICROELECTRONICS from 31st July to 4th August, 2023.

DEPARTMENT OF MECHANICAL ENGINEERING

❖ **PHD AWARDED**



- ❖ **Dr Sonia S Raj** was awarded DOCTOR OF PHILOSOPHY under the Faculty of Mechanical Engineering from Noorul Islam University in Natural Fiber Composite valid from May 15th 2023.



- ❖ **Dr Amjith L R** was awarded DOCTOR OF PHILOSOPHY under the Faculty of Mechanical Engineering from Noorul Islam

University Renewable Energy valid from October 21st 2023

❖ **EXPERT TALK**

➤ **THE CONFLUENCE TRANSCENDING BOUNDARIES IN ENGINEERING.**

Expert Talk on “The confluence transcending boundaries in Engineering’ was conducted on Sept 26. Session aimed at introducing students to the world of interdisciplinary research.



➤ **ALL ABOUT AC**

Expert Talk ‘All about AC ‘ Resource person Mr Noushad M Mussain (Regional Director South ISHRAE HQ on November 24. The speaker also gave an orientation class to ISHRAE members.



❖ **BUS HANDING OVER CEREMONY**



Bus Handing over ceremony. And interactive session on importance of teardown analysis of vehicle Chief Guest – Mr Sarath K J, Lead Mechanical Engineer, Alstom group (Train Design) Speaker – Rachin U R- Senior Manager, Vehicle Architecture, R&D Tata Motors, Rachin U R-Senior Manager, Vehicle Architecture, R&D tata Motors.



❖ **FDP CONDUCTED**

FDP on 'Fusion 360 Academic Adoption' was organised in association with BIMLABS Global from 27-7-2023 to 31-7-2023



❖ **ASSOCIATION ACTIVITIES**

Inaugurated department association MAGMA on November 13. Dr Ajith prabhu (Chief Scientist & Nodal officer TDMPD, KSCSTE) inaugurated the event.



PROJECT PROPOSAL SUBMITTED

Dr. Vishnu B R

Scheme : State University Research Excellence (SERB SURE)

Research Area: Mechanical & Manufacturing Engineering & Robotics

Total Cost: 32,93,750/-

❖ **PAPER PUBLICATION**

➤ **Dr. C. R. Berlin Selva Rex**-“Power performance and emissions analysis of outboard diesel engines by use of waste cooking oil biodiesel “– Material Today Proceedings – September 2023

➤ **Dr. Vishnu B. R.**-“Effect of activated fluxes on the BZC and Cr (VI) concentration in stellite hardfacing operation “Material today communications- November 2023 .

➤ **Dr. Vishnu B. R.**-“Concurrent reduction of the fume and Cr (VI) concentrations of inhalable and respirable particle using a new covered stainless steel SMAW electrode” – Journal of environmental chemical engineering- November 2023

➤ **Dr Amjith L R** -“Computational and comparative analysis for aerodynamic blade and spiral blade optimization for enhanced productivity in a 5MW HAWT” International conference on emerging trends in technology and science, organized by

department of Fire technology and safety engineering & Automobile engineering of Noorul Islam Centre for higher education , Kumaracoil, Kanya Kumari District, Tamil Nadu.

- **Dr Sonia S Raj** -“Characterization of physical and mechanical properties of agro waste fiber as reinforcement in polymer composites in comparison with few natural composites” -International conference on emerging trends in technology and science, organized by department of Fire technology and safety engineering & Automobile engineering of Noorul Islam Centre for higher education , Kumaracoil, Kanya Kumari District, Tamil Nadu –

➤ **CYBER SECURITY**

Awareness on Cyber security was handled by Cyber Cell –Trivandrum City Police



➤ **SUSTAINABLE PRACTICES**

Awareness to Sustainable Practices were handled by Prof Ullas Innocent Raj



Ist YEAR INDUCTION PROGRAM (SEPTEMBER 8-15)

❖ **EXPERT TALK**

➤ **FIRE & SAFETY SESSION**

The fire and safety session was handled by Godwin A R, Manager O and M, Technopark, Trivandrum. He delivered topics of fire and safety with practical sessions.



➤ **KNOW YOUR COLLEGE AND STRUCTURE**

“Know Your College and Structure”- by First year coordinator Prof Arun J.



➤ **INDUSTRIAL REVOLUTION 2.0**

“Industrial revolution 2.0” was handled by Tiltedu at Technopark



HANDS ON TRAINING

Hands on training session on – Introduction to AUTOCAD by Intercad systems done. All students undergone AutoCAD training through three different sessions.



LITERARY ACTIVITY

Literary Activity – to present the artistic talents of students - music/dance performance thereby training them get rid of stage fear. A lot of students showcased their artistic and literary talents



FRESHERS DAY

Fresher’s day – EXPERANZA’23 was celebrated on 18th Nov 2023. Total of 19 events were conducted by students of first year.



TRIUMPHUS 2023

The Triumphus 2023, an event to honour students having more than 9 GPA in second semester 2023. Total of 17 students from all branches were honoured.



SOFT SKILLS TRAINING

Soft skills training program were conducted by CGPU



FIELD VISIT

All students of first year visited VSSC on 15th Nov 2023



WELCOME TO THE NEW FACULTY

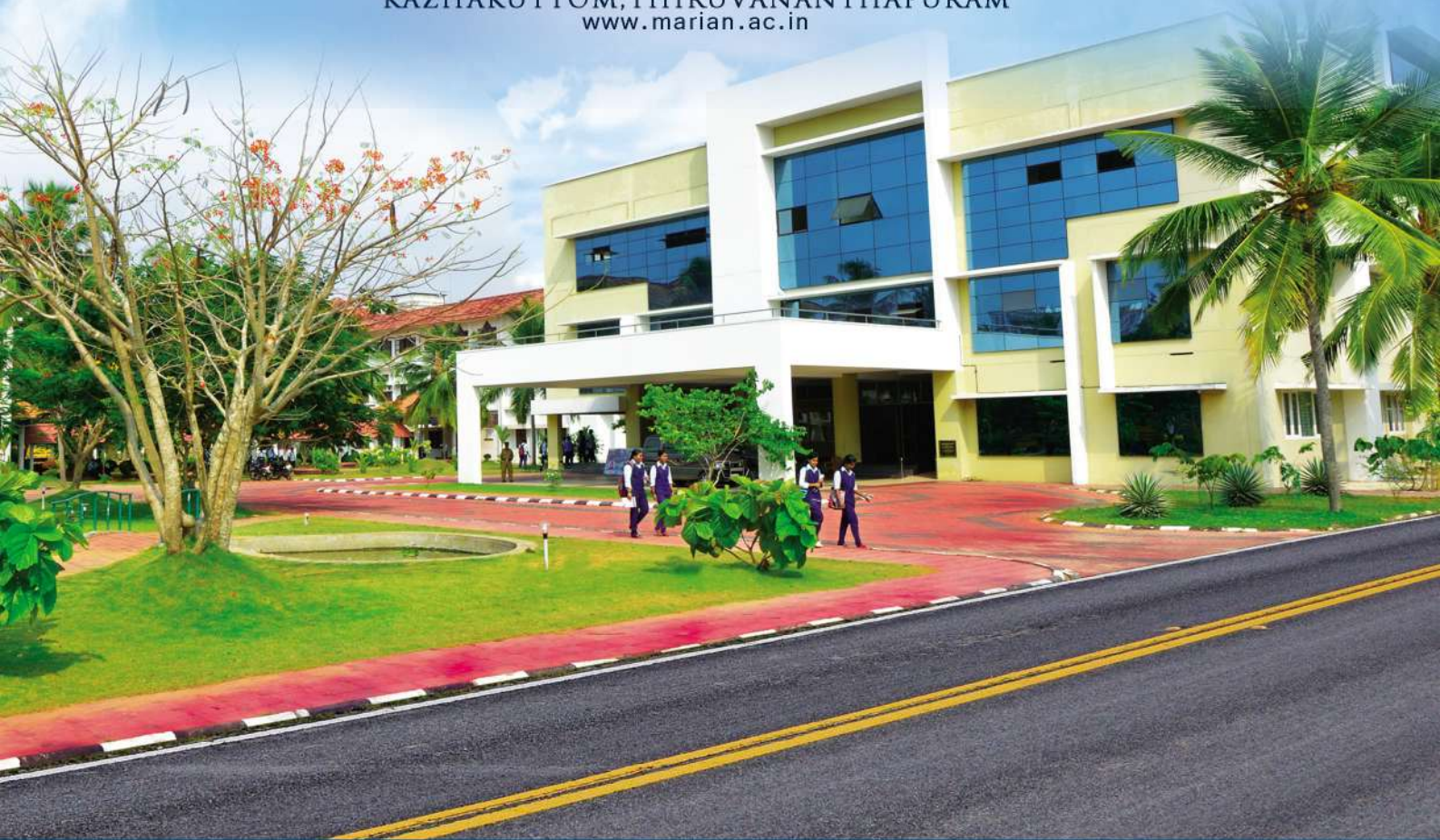
The following faculty members joined in various departments of Marian Engineering College during this period.

| Name | Department |
|-----------------|------------|
| Ms Mamata A K | EEE |
| Ms Annie R Das | CSE |
| Ms Harsha T | CSE |
| Ms Bincy P | CSE |
| Ms Aiswarya I P | CSE |

NURTURING A HABIT OF EXCELLENCE



MARIAN
ENGINEERING COLLEGE
KAZHAKUTTOM, THIRUVANANTHAPURAM
www.marian.ac.in



MARIAN MOMENTS

Managing Editor | Rev. Fr. Jim Carvin Roach, Bursar
Editor in Chief | Dr. M Abdul Nizar, Principal Editor | Dr. Vijayalekshmy S, Head Dept. of EEE
Board of Editors | Dr. Samson A (Dean) Dr. Narayanan S (Dept. of CE) Prof. Keerthi Krishnan (Dept. of CSE)
Prof. Vinitha B Elza (Dept. of ECE) Dr. Berlin Selva Rex (Dept. of ME) Dr. Aswathy SU (Dept. of AI)
Dr. M Manoj (Dept. of ES) Prof. Rajaneesh R Chandran (Dept. of ME)