

MARIAN MOMENTS

Newsletter of Marian Engineering College, Kazhakuttom



Engg. College Code
MCE

Vol 11 | Issue 1

April 2024

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

RECEIVING THE GREEN CAMPUS CERTIFICATION



MESSAGE FROM THE MANAGER



It gives me immense pleasure to introduce the first edition of our quarterly newsletter of 2024 from Marian Engineering College. This initiative aims to be a valuable source of information and inspiration for our esteemed readers, highlighting the exciting developments in our esteemed institution.

The engineering landscape is currently experiencing a phase of rapid evolution and innovation. With advancements in technology such as AI, IoT, and sustainable engineering solutions, there are limitless prospects awaiting aspiring engineers. It is an exciting time to be part of this dynamic industry, where creativity and problem-solving skills are key drivers of success.

I would like to extend my sincere gratitude to all the staff members who have played instrumental roles in coordinating various events and activities within our college. Your dedication and hard work have enriched the academic and extracurricular experiences of our students, contributing significantly to their holistic development. Furthermore, I would like to express my appreciation to the team behind this newsletter. Your efforts in gathering insightful content and presenting it in an engaging format are commendable. This newsletter will serve as a platform to showcase our achievements, share success stories, and foster a sense of community within our institution.

As we embark on this exciting journey of knowledge sharing and collaboration, I encourage everyone to actively participate and contribute to nurture great minds of our nation. Together, let us continue to inspire and empower the next generation of engineers.

Thank you once again to all those who have contributed to this issue of newsletter.

Best regards,

John

Rev. Dr. A R John
Manager

CHRYSLIS 2023

The Graduation Ceremony of Btech & MTech students of 2022 and 2023 'CHRYSLIS 23' was ceremoniously held on 16th December 2023 at the College Auditorium. Manager Rev Fr, Dr. A R John declared the graduation day open. Welcome Dr A Samson, Dean of the college gave the welcome address. The Graduation address was delivered by the Chief Guest Dr V Narayanan, LPSC Director. He also gave away the certificates and medals to the students. The oath taking ceremony was solemnised by Principal, Dr Abdul Nizar M.



➤ TECHNICAL WORKSHOPS

NATIONAL EDUCATION POLICY 2023

Workshop on National Education Policy 2023 was conducted on 2/12/2023. The resource person for the day was Dr Shakila Shamsu. Dr. Shakila Shamsu was formerly Officer on Special Duty (New Education Policy), in the Department of Higher Education, Ministry of Education (MoE). She has been the Secretary to the Committee to Draft National Education Policy. She was also the Nodal Officer of the flagship Govt. of India Scheme of National Mission on Teachers and Teaching (NMTT).



FACULTY EMPOWERMENT PROGRAM

Faculty Empowerment Program was conducted on November 17th & December 2nd in IEDC Hall. Manager Rev Father (Dr) AR John enlightened the faculty on the 10 commandments of teaching. Ms Seema Rafi - Cofounder of Vita skills Academy took a session on 'Training the Trainers' on the occasion.



NAAC CRITERIA AND ACCREDITATION PROCESS

A Technical Workshop on ' NAAC Criteria and Accreditation Process' – was conducted on 19-1-2024. The resource person for the workshop was Dr M J Jayasree IQAC Coordinator of MBCET.



MODEL KERALA LEGISLATIVE ASSEMBLY 2023

The students of Marian Engineering College attended the program "Model Kerala Legislative Assembly 2023 " organized by Sri V. Sasi MLA (Chirayinkeezhu Constituency) conducted at St Xaviers college on 17-12-2023



STUDENT OUTREACH PROGRAM

Second phase of IEDC student outreach program organised for Christ Nagar, Loyola and Chinmaya on 17.02.2024(Saturday)at Christ Nagar School, Trivandrum.



INTERNATIONAL ENERGY FESTIVAL OF KERALA 2024

Marian Engineering College participated in the International Energy Festival Kerala (FAIR 2024) from 07-2-24 to 09-2-24 at Tagore Theatre. The FAIR 2024 served as a platform for showcasing innovative projects aimed at addressing energy conservation and sustainability challenges. A team of students comprising Ashik Muhammed Ansar , Alwin J H, and Sankeerthana V, along with faculty guides Asst.Prof. Geena S,Asst.Prof.Abhijith and Mr.Hiran Mohan ,presented their project on 2 implementing energy-saving methods in daily routines. The project emphasized the potential for cost savings and long-term profitability through simple yet effective energy-saving practices.



➤ CERTIFICATE DISTRIBUTION

Certificates were handed over to the participants of International Energy festival of

Kerala 2024 by Burzar Rev Fr. Jim Carvin Roach



INTERNATIONAL SPORTS SUMMIT KERALA 2024

Marian College of Engineering and Marian College of Architecture and Planning collaborated on an exhibition at the International Sports Summit held in Kerala in 2024. The collaboration aimed to showcase innovative ideas, designs, and technologies that integrate engineering and architectural principles to enhance sports infrastructure and experiences. By showcasing projects with global relevance, the exhibition positioned Marian College as a leading institution capable of making meaningful contributions to the global sports infrastructure landscape.



KERALA HACKRUN INAUGURATION

The Kerala HackRun Inauguration commenced on 7th March 2024 at 9:10 AM, bringing together eminent personalities and participants to delve into the realm of cybersecurity. The event commenced with a warm welcome address by Dr. Abdul Nizar, the College Principal, followed by a Presidential address by Fr. A.R. John, the College Manager, setting the tone for the seminar. Mr. Sreenath Gopinath, Director, and Chairman of TechByHeart, provided a comprehensive briefing about Kerala Hack Run, shedding light on its

objectives. The official inauguration took place through a solemn Lamp Lighting Ceremony. The inaugural speech by Shri. Nakul Deshmukh IPS, Commandant of the Kerala Armed Women Police Battalion, was enlightening and emphasized the importance of cybersecurity in the current digital landscape. Dr. Samson A, Director of the College, conveyed felicitation. The highlight of the seminar was an Interactive Session about Cybersecurity Awareness conducted by Mr.Shakeel Ahmed, Managing Partner of TechByHeart.



GREEN CAMPUS CERTIFICATION PROGRAM

The certification ceremony of Green Campus was conducted on 15th February at Bishop Benzigar Hall. The certificate was jointly given by Haritha Keralam Mission, Kadinamkulam panchayat and Navakerala Karmapadhatthi. Sri M G Rajamanikam IAS Secretary LSGD, Dewaswom Board and Revenue, Principal Director, Commissioner for rural Development, Government of Kerala handed over the certificate to Manager Rev. Fr. A R John.



PRIZE DISTRIBUTION – MARIAN EDU EXPO 2023

Prizes were distributed to students and schools who participated in Diary Writing Competition which was conducted as a part of Marian Edu Expo 2023 on January 19. Jovith Reji Joseph –

12th std student of St Marys HSS won the first prize and Irfan Muneer M – 12th Std student of St Thomas HSS Poonthura won the second Prize.



LOGO & BROCHURE RELEASE- ICCESP 2024

Logo and Brochure releasing ceremony of International Conference in Civil Engineering for a Sustainable Planet ICCESP 2024 organised by Department of Civil Engineering was held at IEDC Hall, on February 29. Logo and Brochure was released by Adv. Chandy Oommen MLA and Dr Abdul Rahiman M., Director LBS centre for Science and Technology.



NATIONAL ENERGY CONSERVATION DAY

The NSS Unit of Marian Engineering College marked the National Energy Conservation Day on December 14 with great enthusiasm and commitment this year, marking a significant

milestone with the inauguration of its very own Energy Cell.

The event was graced by Mr. Suraj Kant, the State Head of Energy Efficiency Services Ltd, Government of India, who not only conducted an enlightening awareness class but also inaugurated the newly established Energy Cell.



KTU CONVOCATION

During the convocation ceremony at KTU on March 2nd, 2024, Ms. Lija M.S., a 2023 graduate from the Department of Electrical & Electronics Engineering, was conferred with a BTech (Hons & Minor) Degree certificate by the Higher Education Minister, Dr. R. Bindu.



HONORING S2 TOPPERS

The recognition ceremony for S3 students who achieved above a 9.00 GPA in the S2 KTU examinations of 2023 took place on December 4, at the Benzigar Hall. Manager Rev. Fr. Dr. A. R. John presented mementos during the event.



AWARENESS TO PUBLIC AGAINST DRUG ABUSE

An awareness campaign against drug abuse was organised by MEC in collaboration with Vimukthi (Excise Department) and Malayalam Mission on March 22. The event was conducted at Manaveeyam Veedhi and was inaugurated by Trivandrum District Deputy Excise Commissioner Sri D Balachandran. Principal Dr Abdul Nizar welcomes the gathering. Manager Rev. Fr. Dr. AR John gave the Presidential Address. Excise Commissioner & Vimukthi Manager Sri Ajai K R administered pledge against drug abuse. Malayalam Mission Registrar Sri Vinod Vysakhi, Manaveeyam Cultural group Secretary Sri K G Sooraj and Asst professor Sri Abhijith gave felicitations on the occasion. Asst professor Sri Rajaneesh recited his own poem on the occasion. Dean Dr A Samson delivered the vote of thanks. Students of MEC demonstrated a flash mob and skit during the event



REPUBLIC DAY

The national flag was hoisted on Republic Day, January 26th, by Burzar Rev. Fr. Jim Carvin Roach at the college campus.



INTERNATIONAL WORLD WATER DAY

On World Water Day, March 22nd, students and staff of MEC took a pledge to actively preserve water resources.



ARTS DAY

Arts Day was inaugurated by Principal Dr Abdul Nizar M in College Auditorium on February 28th. The events were meticulously conducted under the able leadership of Senate Faculty Advisor Dr Amjith L R and College Union. Overall championship was bagged by the Computer Science Department. Akash Varghese (S4 EEE) emerged victorious and won the Kalaprabhitha trophy, while Shabanas Nizamudeen Sheeba won the Kaalthilakom title.



ANNUAL SPORTS DAY

Sports meet was on February 29th commenced with prayer song by the college choir followed by the welcome addresses by the College Sports Secretary Adithyan R B (S7 ME) followed by March Past by all departments. Manager Rev. Fr. Dr. A R John hoisted the Flag and gave the inaugural address. Principal Dr. Abdul Nizar addressed the gathering. The torch relay was conducted by captains from all departments Student Day Pledge was administered by Students Union Chairman Pranav Jayan (S7 CSE) and Vice Chairman Bhavana B J (S7 EEE) give the vote of thanks. Individual Champion (Men) was bagged by Adil Zaid (S1 CE) and Champion (Women) by Lekshmy S (S4 AI). Overall champion of annual athletic meet 2023-24 was Computer Science and Engineering Department.



PATENT

Dr. Vishnu B R (Associate Professor/ department of Mechanical Engineering had received two patents)

- Industrial helmet for welding fume expulsion and method thereof. Patent No - 507196 Date of grant 5/2/2024 Patentee – NIT Trichy
- A novel flux composition for the stainless steel SMAW welding electrodes. Patent No -509744 Date of grant 12/2/2024 Patentee – NIT Trichy



ALUMNI FAMILY MEET 2024

The 'Alumni Family Meet 2024' was on 26th January. About 109 alumni from different streams and batches attended the event. The event started with an Ice breaking session (Out door fun games) which was followed by planting of sapling by the first batch of Marian engineering College Alumni. Manager Rev Fr. Dr. A.R.John inaugurated the new alumni office in the main block. The official meeting started at 5.20 pm at Benziger hall, with welcome dance by students of S7EEE. The principal addressed the gathering followed by inaugural address by the manager. This was followed by alumni interaction session. The election for the office bearers were also conducted. Dean Dr Samson A conducted the election and declared the names of alumni to various positions. The executive committee was formed with the following members.



WINNERS – NATIONAL HACKATHON

Govind SB(S6R1) and Aswin Asok(S6R1), students of Marian Engineering College were part of the hacker team, who grabbed the top spot at the DPG Tech Fusion Hackathon held on the 22nd March 2024 in Pune. The team worked on an AI chatbot tailored for ONDC. The chatbot helps remote sellers/farmers add a catalog to the network based on simple voice based instruction



WINNERS – UST TECHNICAL EXPO

The 2020-2024 ECE batch of students namely Nandini D.S, Naziya M.G, Nobiya Noel and R.S Akul Balakrishnan were the Second Prize winners with cash award of Rs 10,000/- for participating in UST Technical Expo in which more than 500 teams participated. Their project, which is also undergoing a patent application, highlights their prowess in innovation and potential for real-world impact.



IEDC – ACTIVITIES

➤ INAUGURATION OF MARIAN WOMEN IEDC

Women IEDC Wing of MEC was inaugurated on March 18. Shalin Eliz Eby, Founder of Ifruit & Ente chottupathram, graced the occasion with their presence. The event symbolized a collective commitment to fostering a supportive environment where every woman's potential is celebrated and nurtured.



➤ WORKSHOP – DESIGN THINKING

On March 1, 2024, Dr. Bharati Raj, Assistant Professor at NSS College Palakkad, orchestrated an extensive one-day workshop on Design Thinking, held from 9 am to 4 pm. The workshop was meticulously crafted to immerse participants in the principles and practices of Design Thinking, aiming to unleash their creativity and problem-solving process.



➤ RURAL INNOVATORS MEET

Third-year students from the Electronics and Communication Engineering (ECE), Vimal and Savin participated in Rural Innovators Meet hosted by the Kerala State Council for Science, Technology, and Environment (KSCSTE) on 19th and 20th at Thrissur.



NSS – ACTIVITIES

➤ SNEHARAMAM

NSS unit conducted a commendable initiative, Sneharamam on February 9, 2024, aimed at community service and environmental enhancement. The event took place at the backyard of St. Andrews Ground, in close proximity to Jyothi Nilayam School.

Clean-Up Drive: The NSS volunteers actively participated in a clean-up drive to remove litter and debris from the designated area.

Wall Painting: As part of the beautification process, the NSS unit organized a wall-painting session. The volunteers creatively adorned the walls, adding vibrant colours and positive messages.

Tree Plantation: Recognizing the significance of green spaces, the NSS unit planted trees in the vicinity.



➤ CHRISTMAS CELEBRATIONS

On December 21 & 22, the NSS Marian Unit at Marian Engineering College embarked on a festive initiative, dividing into dedicated groups to infuse the campus with the holiday spirit. The volunteers passionately engaged in various creative tasks, including crafting a traditional crib, decorating a magnificent Christmas tree. The thoughtfully designed crafts were hang on trees Beyond the traditional crib, the NSS Marian Unit's commitment to community service and togetherness was evident in their efforts across various areas of the campus. The result was a joyous and vibrant atmosphere that left a lasting impression on the entire Marian Engineering College community, spreading holiday cheer and exemplifying the spirit of the season.

CGPU– ACTIVITIES

➤ INTRODUCTION TO KERALA EMPLOYABILITY CENTRE

Introduction of Kerala Employability Centre by Kerala State Employment Exchange was conducted on 27th February exclusively for final year students.



➤ MOCK INTERVIEW TRAINING

An online mock interview training was given to the shortlisted students of Federal Bank final interview on 13th March by CGPU in collaboration with 'Jays Academy.'



➤ WORK READINESS PROGRAM

A three day Work Readiness Program by KKEM (Keral Knowledge Economy Mission) and ASAP Kerala Workshop on Resume Building, Group Discussion and Interview was given to the final year students of CSE & CE from 31st January to 2nd December.



IEEE- ACTIVITIES

1. IEEE SB MCE conducted a workshop on **Designing Posters** on 17th February in AOC Lab, Marian Engineering College



2. IEEE SB MCE conducted a Poster Design Competition 20th February 2024 and award the cash prize for the winners by Fr. Dr. A. R John, Manager, Marian Engineering College.



3. IEEE SB MCE conducted a MD Session on 24th March 2024 through Google meet platform to know more about IEEE.
4. IEEE WIE MCE and SCT in collaboration with IEEE WIE Kerala Section conducted a talk session on Transition from engineering background to community head by Jyothika Nithin, Malabar hub coordinator, IEEE Computer Society Kerala Chapter community on 2nd April 2024.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

➤ PROJECT FUNDING – FACULTY

Asst Prof. Reeja SL got a funding of Rs.2,50,000 for the research work titled "Sign Language Classification for Hearing Impaired using Computer Vision and Deep Learning" from CENTRE OF EXCELLENCE FOR DISABILITY STUDIES (CDES), Poojapura



➤ PROJECT FUNDING – STUDENTS

Sahil Shaikh, Sidharth D, Yash Kanmani, and Suhail Khan S8 CSE (R1) got financial assistance of Rs.18,000/- from CENTRE OF EXCELLENCE FOR DISABILITY STUDIES (CDES) for their project "Better Speak: DAF Assistance and Stuttering Detection Model" Principal investigator- Ms. Keerthi Krishnan.

➤ MOU

MOU was signed between Simple Logic Solutions Pvt Ltd and Marian Engineering College on January 22. Simple Logic Solutions Pvt Ltd was represented by Mr. Aswin P Chandran CEO. Ameer Al Hisham (S6R1) has been engaged in a software project as a consultancy work with Simple Logic Solutions Pvt Ltd



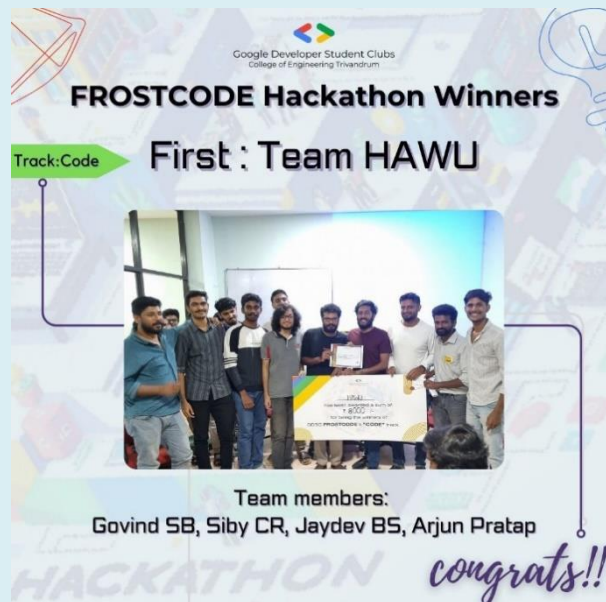
➤ INVITED TALK

A talk on "Significance of Cyber Security Awareness" was conducted on 7th March by NCSSS. Resource Person was from TechBy Heart.



➤ STUDENT ACHIEVEMENTS

1. Siby C.R (S6R2), Siby C.R. (S6R2), Govind S.B. (S6R1), Jayadev B.S. (S4R1) won 1st prize in a hackathon conducted by GDSC CET. Name of the hackathon: Frostcode, Event was conducted on 9th December
2. Govind SB (S6R1) recently emerged victorious at FrostCode 23, a hackathon hosted by GDSC CET for DotSlash CET and won 8k. His innovative project, an automated email labeler, captivated the judges and secured him the first prize.



➤ PAPER PUBLICATION

1. Ms. Reeja S L published a paper "A Study on Vision-Based Human Activity Recognition Approaches" in CoMSO 2022" Smart Innovation Systems and Technologies, vol 373, Springer,2024.
https://doi.org/10.1007/978-981-99-6866-4_17
2. Dr. Sheeja Agustin published a paper in International Journal AUTOMATIKA titled Residual U-Net approach for thyroid nodule detection and classification from thyroid ultrasound images(SCI indexed),2024, VOL. 65, NO. 3, 726–737 on December 2023
3. Ms Jyothi Johnson has presented and published a paper titled EGFD-AROMA – Based Pattern Forecasting with Crime Rate Level Identification in the Third International Conference “Smart Technologies Communication and Robotics 2023(IEEE-STCR 2023)” organized by the Departments of ECE,EIE & BME, Bannari Amman Institute of Technology from 9th December to 10th December 2023

➤ WORKSHOP ATTENDED

Ms. Keerthi Krishnan attended the one day NPTEL SPOC felicitation cum awareness workshop at IIT Madras on 20th Jan 2024.

➤ FDP ATTENDED

1. Ms. Reeja S L and Ms. Hema S Mahesh attended 5days online FDP on Pixels to Predictions: Machine Learning in Medical

Imaging at VIT Chennai on 11 /12/2023 to 15/12/2024.

2. Ms. Keerthi Krishnan, Dr. Sheeja Augustin, Ms. Reeja S L, Ms. Sunitha S, Ms. Dhanya L, Ms. Binsi P, Ms. Hema S Mahesh has participated in the One Week National level Online Faculty Development Program on Outcome Based Education and Essential AI Tools for Teachers, organized by the Internal Quality Assurance Cell (IQAC) of St. Thomas College, Palai in association with The Kerala State Higher Education Council (KSHEC) from 10 January 2024 to 16 January 2024
3. Ms. Reeja S L and Ms. Hema S Mahesh attended 5 days online FDP on Recent Trends in Biomedical Applications using AI T St Peter's Institute of Higher Education and Research, Chennai from 29-01-2024 to 02-02-2024.
4. Dr. Sheeja Agustin has successfully completed the FDP on AI Evolution under TechSaksham on February 2024

➤ SEMINAR ATTENDED

Dr. Sheeja Augustin and Ms. Keerthi Krishnan attended National Level Seminar on Research Paper Writing and Publication on 24th March 2024

➤ AGM ATTENDED

Dr. Sheeja Agustin attended the annual general meeting of IEEE Kerala Section held on 13th January 2024 at the hotel Abada Plaza, Kochi.

➤ GOOGLE DEVELOPER STUDENT CLUB ACTIVITIES

1. On January 24th, a dynamic workshop titled "Hands-on Gemini" unfolded, bringing together eager participants in collaboration with GDSC SCTCE. The event, led by the esteemed Sreedhar KS, the Lead of GDSC SCTCE, provided attendees with a hands-on experience utilizing the Gemini Pro API, now freely accessible for development through Google's AI Studio.
2. Google Developer Student Clubs (GDSC) has successfully facilitated an initiative that

empowered over 17 students from Marian to access Google's Cybersecurity Professional certification on Coursera, a program valued at \$300. By making the certification available for free, GDSC has not only expanded educational access but has also empowered students to develop a foundational understanding of cybersecurity.

3. On January 9th 2024, Anuj Garg, a distinguished Tech Lead at Code for Cause and an ex-Google Engineer, conducted an enlightening session titled Machine Learning 101. The event aimed to introduce participants to the foundational concepts of artificial intelligence (AI) and machine learning (ML).
4. On December 12th 2023, Google Developer Expert Mr. Pankaj Rai led an enlightening Android Workshop focused on Jetpack Compose. The session delved into the intricacies of Kotlin language, the fundamental structure of Android applications, and the creation of interactive UI components within the box model of Jetpack Compose
5. On December 17th, Philanta Gomez, the Head of Operations at GDSC MCE, hosted an insightful information session to introduce students to the Solution Challenge. The event covered an array of topics, providing participants with a comprehensive understanding of the challenge, its scope, and the roadmap to successful participation.
6. GDSC MCE organized Into the Deep - Introduction to Deep Learning workshop on December 28th and 29th, 2023. The virtual event, held on Google Meet, saw the enthusiastic participation of 35 eager learners. The workshop featured speakers Siddharth D and Archa Sekhar, offering a comprehensive exploration of deep learning fundamentals.
7. GDSC MCE organized Flutter Craft workshop on December 26th and 27th, 2023. The event, conducted virtually on Google Meet, drew a participation of around 35 individuals keen to delve into the intricacies of Flutter, a prominent open-source UI software development toolkit. Govind SB,

the tech lead at GDSC MCE, spearheaded the workshop, sharing valuable insights into Flutter's fundamentals, features, and practical development strategies.

8. The Google Cloud Study Jams, organized by the Google Developer Student Clubs Marian Engineering College (GDSC MCE) under Google for Developers, proved to be an enriching month-long initiative aimed at enhancing students' understanding of cloud technologies through hands-on experience with the Google Cloud Platform. The event kicked off with an informative session led by the skilled event facilitator, Feba Jose.



DEPARTMENT OF CIVIL ENGINEERING

➤ AMETOS – ASSOCIATION ACTIVITIES

1. As part of “International Womens Day” a women empowering session by Lekshmi IES-CWE Airforce Southern Air Command Akkulam on the topic “Fighting Spirit in Silence- A true story of a young Geotechnical Engineer”.

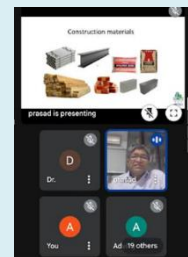


2. As a part of “World Water Day” an oath was taken to save water together for life and preservation of nature on 22nd March 2024.



➤ ASCE/IEI STUDENT CHAPTER ACTIVITIES

1. A technical talk on ***“Advancements in Construction Technology”*** was conducted on 15th December 2023.



2. As part of World Engineering Day, a lecture was delivered by Dr. Samson Mathew, Director NATPAC on the theme “Engineering Solutions for a sustainable world” on 4th March 2024.



➤ FACULTY ACHIEVEMENTS

➤ CHAIR/CO-CHAIR/SPEAKER

1. Dr. Rani V., Chair for a plenary session as part of **National Conference on Soils and Foundations** organized by Department of Civil Engineering, LBS ITW in association with IGS, Trivandrum Chapter, Deep Foundations Institute, India and TC 212 of ISSMGE on 15th to 17th February 2024.
2. Dr. Rani V. was the speaker for the topic on **“A focus to soil investigation”** at conference **SAF 24** organized by LBS college from 15th to 17th February 2024.
3. Dr. Rani V. was the speaker of webinar session on **“Scope & challenges of infrastructure development in Kerala”** at Mangalam College of Engineering, Ettumanoor on 7 th March 2024
4. Prof. Kannan K., Co-chaired for a plenary session as part of National Conference on Soils and Foundations organized by Department of Civil Engineering, LBS ITW in association with IGS, Trivandrum Chapter, Deep Foundations Institute, India and TC 212 of ISSMGE on 15th to 17th February 2024.

➤ REVIEWER/TECHNICAL PROGRAM COMMITTEE MEMBER

1. Prof. Kannan K. was the technical program committee member and reviewer for “Congress on Smart Computing Technologies” organized by South Asian University Centre for Research and Innovative Learning, December 2023
2. Dr Rani V. was the reviewer for International Conference of emerging trends and technologies organized by Model Engineering College during 11th to 13th April 2024

➤ PUBLICATION-TECHNICAL MAGAZINE

1. Dr. Rani V. published an article on “**Heavy metal contaminated soils: A Pollution Assessment**” as cover story in Construction Philosophy magazine on March 2024.
2. Prof. Renju C. M. has published an article “**Cementing Sustainability**” as cover story in Civil Engineering Magazine, in Construction Philosophy magazine on March 2024.

3. BIS – WORKING GROUP MEMBER

Prof. Abhijith R.P. has included in the working group for revision of Bureau of Indian Standards CED 32/WG1 of IS 15917.

4. NATIONAL LEVEL TECHNICAL PROJECT COMPETITION- PARTICIPATED

Prof. Abhijith R.P. has participated in “SRISHTI 2024”, National level Technical Project Exhibition and competition conducted by Saintgits College of Engineering.

5. PAPER PUBLICATIONS

1. Theertha B., Vishnu A.S, Aparna S Nair, Lekshmi Sudarman and Gokul Krishna V.S. of S8C1 guided by Dr. Rani V., Associate Professor, MEC have presented a paper on the topic “**Spatial distribution and morphological studies with application of geotextiles in coastal areas of Trivandrum**” in Conference of Soils and Foundations 2024 from 15th to 17th 2024

2. Vaishnavi Chandran of S4GT guided by Dr. Rani V., Associate Professor, MEC have presented a paper on the topic “**Review on Beach Morphological study on coastal regions in Trivandrum**” in SAF 2024
3. Prof. Renju C.M. has presented a paper in **International Conference on Novelty in Science, Engineering and Management “ICoN SEM-2024”**, conducted by Department of Civil and Mechanical Engineering on 22nd to 23rd March 2024 at Mahaguru Institute of Technology, Kayamkulam.
4. Prof. Abhijith R.P. has presented a paper in **International Conference on Novelty in Science, Engineering and Management “ICoN SEM-2024”**, conducted by Department of Civil and Mechanical Engineering on 22nd to 23rd March 2024 at Mahaguru Institute of Technology, Kayamkulam.
5. Gokul Nath of S4GT guided by Prof. Soorya S.R., Assistant Professor, MEC have presented a paper on the topic “**Combined effect of steel fibres and ground granulated blast furnace slag on clayey soil**” in SAF 2024
6. Helen Thomas of S4GT guided by Prof. Revathy V. S. Assistant Professor, MEC have presented a paper on the topic “**Experimental study on the effect of jute geotextile on piping resistance of soil**” in Techsynod 24
7. Helen Thomas of S4GT guided by Prof. Revathy V. S. Assistant Professor, MEC have presented a paper on the topic “**Performance evaluation of Natural fibres on piping resistance of soil-A Review**” in SAF 2024
8. Karthika Satheesh G of S4GT guided by Prof. Magi N.S., Assistant Professor, MEC have presented a paper on the topic “**Evaluation of bearing capacity of sandy soil reinforced with braided sleeve tubes**” in Techsynod 24

9. Karthika Satheesh G of S4GT guided by Prof. Magi N.S., Assistant Professor, MEC have presented a paper on the topic **“Review on evaluation of bearing capacity of sandy soil reinforced with coir geogrid tubes”** in SAF 2024

10. Rijo Varghese of S4GT guided by Prof. Tara Leander, Assistant Professor, MEC have presented a paper on the topic **“Bearing capacity of soil with nano silica and carbon fibre”** in SAF 2024

➤ SURVEY CAMP

As part of curriculum, third year students participated in survey camp on 14th Feb



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

➤ HEAD OF THE DEPARTMENT

Professor R Harikumar – Retd Professor – CET took charge as Head of the Department from January 1 2024



➤ FELICITATIONS– KALATHILAKOM & KALAPRATHIBHA/ PLACED STUDENTS

Department extended their warm regards to of the Kalathilakom (Akash Varghese S4 EEE), Kalaprathibha (Shabanas Nizamudeen Sheeba S4 EEE) placed students of S8 EEE who got campus placement in an heartfelt assembly on March 4th.



➤ INDUSTRIAL VISIT

S6 EEE conducted their Industrial Visit from 23-3-24 to 30-3-24 successfully. They visited Harangi Hydro Electric Power Project in Karnataka.



➤ PAPER PUBLICATION

Ms Sumitra K has presented and published a paper titled A Comprehensive study on the Communication Protocols for V2G Operations in the IEEE Conference on“Power Electronics, Smart grid And Renewable Energy 2023(PESGRE 2023)” organized by IEEE/IA/IE/PELS Kerala Joint Chapter from 17th – 20th December 2023

➤ FDP ATTENDED

Ms Geena S attended an FDP on Recent trends in Renewable energy from 12.02.24 to 16.2.24 conducted by dept of EEE Mahaguru Institute of Technology Alappuzha.

➤ IQAC CO-ORDINATOR

Dr Vijayalekshmy S took charge as IQAC Coordinator on January 1st. She was promoted as Professor in the Department.



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

➤ INDUSTRIAL VISIT & DEPARTMENT TOUR

S6 ECE conducted their Industrial Visit from 21-3-24 to 27-3-24 successfully. Places of Visit – Wayanad, Mysore, Dandeli, Goa. Industrial Visit - Kaynes Technology India Ltd., Mysore (Electronic device manufacturing company)



➤ TECH EXPO

Based on the two day workshop on Arduino on 13th and 14th November, 2023 a competition was held for the S3 ECE and ES students (2022-2026) on 7th December, 2023. Of the 11 batches who participated the 1st prize was won by Kiran Shreyas and Sacheth of ES batch .



➤ CHRISTMAS CELEBRATIONS

The seniors of Department of ECE organized a small Christmas warmth on 21st December along with the juniors and faculty.



➤ STUDENT ACHIEVEMENT

The students of S6 ECE -Vimal Victor, Savin, Abhiram and Gouri (2021-2025) were selected as one among 10 in all Kerala level, to presened their project ' Agrospy 2.0' for the Rural Innovators Meet KSCSTE 2023, in November 2023.



➤ ALIMNI MEET

2005-2009 ECE batch visited the Department during the Onam Holidays to cherish their memories during Onam Holidays of 2023.



➤ PAPER PUBLICATIONS

Vinitha B Elza (Asso.P,ECE) has presented and published in proceedings a paper entitled 'Impedance Spectroscopy Analysis of Low-Cost mixed halide MAPbI_{1-x}Cl_x, Highly Efficient FAPbI₃ and Non-Toxic Lead-free CsBi₃I₁₀ Perovskite Solar Cells: A Comparative Numerical Analysis using SCAPS-1D',in the International Conference on advanced Functional Materials and Devices , AFMD 2024 held by SRM from 26th to 28th February, 2024

➤ FDP ATTENDED

1. Ms.Vinitha B Elza, has participated in 'Recent Research Trends in Green Energy Technologies' organized by Dept. of Mechanical Engineering, College of

engineering Trivandrum from 8th to 12th January, 2024

- Ms. Minnu Jayan C. has participated in 5 day FDP on VLSI Design and Modelling organised by LBSITW from 8th to 13th January, 2024
- Ms. Minnu Jayan C. has participated in 5 day online FDP on 'Recent Trends in Biomedical applications using AI', organized by Department of Biomedical Engineering from 29th January to 2nd February, 2024 at St. Peters Institute of Higher Education and Research, Chennai.

DEPARTMENT OF MECHANICAL ENGINEERING

➤ NIDHIN BR MEMORIAL CASH AWARD

Nithin B. R (2017 -2021 Batch) memorial cash award sponsored by his parents in memory of late Nithin B R was awarded to Mr. Jaya Christeev R. V. by Manager Rev. Fr. Dr. AR John . on 27th February.



➤ PROMOTED AS ASSOCIATE PROFESSOR

- Dr. Arunkumar V. was promoted as Associate professors in Mechanical Engineering Department in January.



- Dr Vishnu B R was promoted as Associate Professor in Mechanical Engineering Department in January.

➤ RESOURCE PERSON – WORKSHOP

Mr. Ullas Innocent Raj (Associate Professor) conducted workshop for NSS students on Plastic Pollution, Solutions and Value based Practical Entrepreneurship under, Sustainable Products and Practices Team, Department of Mechanical Engineering, for NSS students of our college on for NSS students of our college on 17/2/2024 2:30pm – 6:00pm at St. Vincent's School Kaniyapuram. Also students were given awareness to the intensity of plastic pollution, its solutions and innovative means to propagate the awareness by song and dance. Also students were given ideas for practical entrepreneurship and to invest part of the income generated for charity activities in the college. After awareness class students were divided into four groups and assigned to sell paper bags to nearby shops and houses. They were exhorted to bring the money obtained to charity activity at college.



➤ PAPER PUBLICATION

- Dr. Berlin Selva Rex C. R**
Solution of Combined Economic and Emission Dispatch Problem using Hybrid Water Cycle Whale Optimization Algorithm. 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) Karnataka, India. Dec 29-31, 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, p.111632. DOI:10.1016/j.jece.2023.111632

➤ FDP ATTENDED

- Dr. Sonia S Raj participated in the Faculty Development Programme on "Recent Trends in Green Energy Technologies" from

08-01-2024 to 12-01-2024, conducted in association with Department of Technical Education, Department of Mechanical Engineering, College of Engineering Trivandrum.

2. Prof. Joseph K M participated in the Faculty Development Programme on “Recent Trends in Green Energy Technologies” from 08-01-2024 to 12-01-2024, conducted in association with Department of Technical Education, Department of Mechanical Engineering, College of Engineering Trivandrum.
3. Dr. Amjith L R participated in the online Faculty Development Programme on “Emerging Trends of Thermo Fluid in Energy Systems” from 17-01-2024 to 21-01-2024, conducted by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai
4. Dr. Manu Mohan participated in the one week National level online Faculty Development Programme on “Out Come Based Education and Essential AI Tool for Teachers” from 10-01-2024 to 16-01-2024, conducted by IQAC of St. Thomas College, Palai, Kerala.
5. Prof. Rahul R. S. participated in the one week Faculty Development Programme on “Out Come Based Education and Application of Generative AI in Teaching and Research” from 10-01-2024 to 16-01-2024, conducted by Government College, Kottayam, Kerala.
6. Prof. Pramad Raj T. P. participated in the one week Faculty Development Programme on “Out Come Based Education and Application of Generative AI in Teaching and Research” from 10-01-2024 to 16-01-2024, conducted by Government College, Kottayam, Kerala

➤ STUDENTS ACHIEVEMENT

Gowri Nanda, Samuel Maju, Anandhu Anil Kumar and Akhil Mohammed Saj participated in the final round of National Student Design Competition (NSDC 2024), organised by ISHRAE.

HEARTY WELCOME TO OUR NEW FACULTY MEMBERS

➤ PROF BALU JOHN

Prof. Balu John, Retd Professor, CS Department, CET joined as Professor in CSE Department on April 1.



Ms. MARY LISA LEENUSE

Ms Mary Lisa Leenuse, joined as Asst. Professor (Adhoc) in CSE Department of our institution on January 29



➤ DR. ANUSHA B

Dr. Anusha B, joined as Asst. Professor (Adhoc) in CSE Department on March 18.



➤ Ms. RINU JOE

Ms Rinu Joe, joined as Asst. Professor (Adhoc) in EEE Department on January 29.



➤ Ms. SOORYA C S

Ms Soorya C S, joined as Asst. Professor (Adhoc) in Science & Humanities Department of our institution on February 5.





GREEN CAMPUS



MARIAN
ENGINEERING COLLEGE

KAZHAKUTOM, THIRUVANANTHAPURAM
www.marian.ac.in



MARIAN MOMENTS

Managing Editors | Rev. Fr. Dr.AR John , Manager & Rev. Fr. Jim Carvin Roach, Bursar
Editor in Chief | Dr. M Abdul Nizar, Principal Editor | Dr.Vijayalekshmy S (IQAC Co-ordinator)
Board of Editors | Dr. Samson A (Dean) Dr.Narayanan S (Dept. of CE) Prof. Keerthi Krishnan (Dept of CSE)
Prof.R Harikumar,(Head Dept. of EEE) 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)
Layout & Design | Prof. Rajaneesh R Chandran (Dept. of ME)