

MARIAN MOMENTS

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Engg. College Code
MCE

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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

THE RENOWNED BOLLYWOOD SINGER ANATARA MITRA IS PERFORMING AT THE COLLEGE DAY CELEBRATIONS - AYKYA '25



MESSAGE FROM THE MANAGER



The latest newsletter documents the spectrum of academic, cultural, and technical initiatives held at our institution from January to March 2025. The pages are a testament to the creativity, dedication, and collaborative spirit of our students, staff and faculty, and they offer readers a vivid portrait of the vibrant life at our institution.

While we celebrate these accomplishments, we are also reminded of the world around us—where technology, instead of being solely a force for progress, is increasingly being exploited for destructive purposes. We live in an age where nations are locked in technological arms races, challenging one another with weapons of extraordinary sophistication. These innovations, driven by science, are not just reshaping geopolitics but also leaving behind trails of devastation, claiming the lives of countless innocent people, including children who neither understand the conflict nor deserve its consequences.

In stark contrast, technology also holds the potential to become an instrument of healing and harmony. From life-saving medical advancements to sustainable energy solutions, from education access in remote corners to disaster relief systems—there are countless ways in which technology can be a builder of peace rather than an agent of destruction. At Marian Engineering College, we are committed to instilling in our students not just technical excellence, but also the moral responsibility to use their knowledge for the common good.

I would like to express my sincere appreciation to all our students, faculty members, and staff for the tireless efforts that went into making the last three months so productive and inspiring. Your contributions continue to shape the identity and impact of our institution. A heartfelt thanks to the editorial team for curating this edition with such clarity and elegance. Your work has not only documented events but also woven together a narrative of purpose, growth, and community.

Let us continue to champion science and technology that serve humanity and foster peace in our world.

Best regards,

Rev. Fr. Dr. A.R. John
Manager



മഹാഗുരു ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജിയിലെയും മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെയും അദ്ധ്യാപകർ ചേർന്ന തയ്യാറാക്കിയ 'ഫണ്ടുമെന്റേറ്റ്സ് ഓഫ് എൻവയോൺമെന്റൽ ഇംപാക്ട് അസസ്മെന്റ്' പ്രിൻസിപ്പൽസ് ആൻഡ് പ്രാക്ടീസ് എന്ന പുസ്തകം മുഖ്യമന്ത്രി പിണറായി വിജയൻ മരിയൻ എൻജിനീയറിംഗ് കോളേജ് മാനേജർ ഫാ. ഡോ. എ. ആർ. ജോണിന് നൽകി പ്രകാശനം ചെയ്യുന്നു. മഹാഗുരു ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് ടെക്നോളജിയിലെ സിവിൽ എൻജിനീയറിംഗ് വിഭാഗം മേധാവി ഡോ. എം. ആർ. സിമി, അസിസ്റ്റന്റ് പ്രൊഫസർ വി. അജയ്, മരിയൻ എൻജിനീയറിംഗ് കോളേജ് അസിസ്റ്റന്റ് പ്രൊഫസർ ആർ. പി. അഭിജിത്ത് എന്നിവർ ചേർന്നാണ് പുസ്തകം തയ്യാറാക്കിയത്.

KERALA KAUMUDI EPAPER
Clipping Kerala Kaumudi - Trivandrum

ജ്യാന്തര സമ്മേളനം സ്പീക്കർ : നാറ്റുപാക്



കേരള സ്റ്റേറ്റ് എക്സ്പ്രസ്സ് സ്റ്റാഫ് അസോസിയേഷൻ ജില്ലാ കമ്മിറ്റി, മരിയൻ എൻജിനീയറിംഗ് കോളേജിന്റെ സഹകരണത്തോടെ സംഘടിപ്പിച്ച ലഹരിവിരുദ്ധ റാലിയുടെ സമാപന സമ്മേളനം മാന്വിയം റിപ്പബ്ലിക് മന്ത്രി എം. ബി. രാജേഷ് ഉദ്ഘാടനം ചെയ്യുന്നു.

രാസ ലഹരിക്കെതിരായ പരിശോധനയും നടപടിയും തുടരും: മന്ത്രി എം. ബി. രാജേഷ്

തിരുവനന്തപുരം: രാസ ലഹരിക്കെതിരായ പരിശോധനയും നടപടിയും തുടരുന്നെന്ന് മന്ത്രി എം. ബി. രാജേഷ്. കേരള സ്റ്റേറ്റ് എക്സ്പ്രസ്സ് സ്റ്റാഫ് അസോസിയേഷൻ ജില്ലാ കമ്മിറ്റി, മരിയൻ എൻജിനീയറിംഗ് കോളേജിന്റെ സഹകരണത്തോടെ സംഘടിപ്പിച്ച ലഹരി വിരുദ്ധ റാലി 'ഡ്രഗ് കേഴ്സ് യൂടെ സമാപന സമ്മേളനം' മാന്വിയം റിപ്പബ്ലിക് മന്ത്രി എം. ബി. രാജേഷ് ഉദ്ഘാടനം ചെയ്യുകയായിരുന്നു എക്സ്പ്രസ്സ് മന്ത്രി. മയക്കുമരുന്നിന് ഉൾപ്പെടെയുള്ള ലഹരി വർദ്ധിക്കാതെത്തുടങ്ങിയതിന്റെ ആവശ്യകത യുവതലമുറയിലേക്ക് എത്തിക്കുന്ന ഉത്തരവാദിത്തം ലക്ഷ്യമിട്ട് 'കെട്ടിപ്പുടക്കാം ശോഭനമായ ഭാവം' എന്ന സന്ദേശത്തോടെ നടന്ന റാലി ജില്ലയിലെ വിവിധ നിരോധക മണ്ഡലങ്ങളിലൂടെ പര്യടനം നടത്തി. മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെയും മരിയൻ കോളേജ് ഓഫ് ആർക്കിടെക്ചറിലെയും വിദ്യാർത്ഥികൾ, ലഹരി വിരുദ്ധ സന്ദേശം പങ്കുവെക്കുന്ന കലാവിഷ്ണു രഞ്ജിത്ത് നടി. എക്സ്പ്രസ്സ് കമ്മീഷണർ മഹിപാൽ യാദവ് ഐ.പി.എസ്., എം.എൽ.എ.മാരായ വി. ജോയ്, അഡ്വ. ഐ. ബി. സതീഷ്, വി. കെ. പ്രശാന്ത്, അഡ്വ. ഡി. കെ. മുരളി, മരിയൻ എൻജിനീയറിംഗ് കോളേജ് മാനേജർ ഫാ. ഫാദർ ഡോ. എ. ആർ. ജോൺ, ജില്ലാ പഞ്ചായത്ത് പ്രസിഡന്റ് അഡ്വ. ഡി. സുരേഷ് കുമാർ, വി. ശാഖ് എം. മരിയൻ എൻജിനീയറിംഗ് കോളേജ് പി.ആർ.ജി. അഭിജിത് ആർ. പി. എന്നിവർ പങ്കെടുത്തു. ലഹരിക്ക് എതിരായ സന്ദേശം യുവതലമുറയിലേക്ക് എത്തിക്കാൻ സംഘടിപ്പിച്ച റാലിയെ മാതൃകാപരമാണെന്ന മന്ത്രി പറഞ്ഞു.



കഴക്കൂട്ടം മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെ കൾച്ചറൽ ഫെസ്റ്റിന്റെ ഉദ്ഘാടനം എഡിജിപി പി. വിജയൻ നിർവഹിക്കുന്നു. തിരുവനന്തപുരം ലത്തീൻ അതിരൂപത സഹായമെന്താണ് ഡോ. ആർ. ക്രിസ്തുദാസ് സജീവം.

ലോക നാടക ദിനാഘോഷം

വെഞ്ഞാരുമുട: ലോക നാടക ദിനാഘോഷത്തിന്റെ ഭാഗമായി രംഗപ്രദർശന നാടക ഗ്രാമത്തിൽ നാടകാവതരണം സംഘടിപ്പിച്ചു. പ്രഫ. ജി. ശങ്കരപ്പിള്ള മെമ്മോറിയൽ സെന്റർ ഓഫ് പെർഫോമിംഗ് ആർട്ട്സ് പ്രഫ. ജി. ശങ്കരപ്പിള്ളയുടെ ഇരട്ടിൽ അലിയുന്ന സന്ധ്യ എന്ന നാടകം അവതരിപ്പിച്ചു.

മരിയൻ കോളേജിൽ കൾച്ചറൽ ഫെസ്റ്റ് നടത്തി

തിരുവനന്തപുരം: കഴക്കൂട്ടം മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെ കൾച്ചറൽ ഫെസ്റ്റ് 'എക്സ്പ്രസ്സ് 2025'ന്റെ ഉദ്ഘാടനം എഡിജിപി പി. വിജയൻ നിർവഹിച്ചു. തിരുവനന്തപുരം ലത്തീൻ അതിരൂപത സഹായ മെന്താണ് ഡോ. ആർ. ക്രിസ്തുദാസ് അധ്യക്ഷനായിരുന്നു. മാനേജർ ഡോ. എ.ആർ. ജോൺ സ്വാഗതം ആശംസിച്ചു. പ്രിൻസിപ്പൽ ഡോ. എം. അബ്ദുൽ നിസാർ, ഡിൻ ഡോ. എ. സാംസൺ, ബർസർ ഫാ. ജിം കാർവിൻ റൊച്ചി, വിദ്യാർത്ഥി പ്രതിനിധികളായ നന്ദന, സഹദിഷാ എന്നിവരും സന്നിഹിതരായിരുന്നു.

M.CAP
MARIAN COLLEGE OF ARCHITECTURE AND PLANNING
TRIVANDRUM



തിരുവനന്തപുരം അതിരൂപത വിദ്യാഭ്യാസ സമിതിയും ജൂബിലി മെമ്മോറിയൽ ഹോസ്പിറ്റലും മരിയൻ എഞ്ചിനീയറിംഗ് കോളേജിന്റെ ആഭിമുഖ്യത്തിൽ നടത്തുന്ന കിം/ നീറ്റ് എൻട്രൻസ് പരിശീലന ഉത്ഘാടന സമ്മേളനം 29/03/2025 ന് എം. സി.എ.പി.ൽ വെച്ച് നടത്തുകയുണ്ടായി. തിരുവനന്തപുരം അതിരൂപത സഹായ മെന്താണ് റെറ്റ്. ഡോ. ക്രിസ്തുദാസ് മുഖ്യ അതിഥിയായി വേദിയെ ധന്യമാക്കി. മരിയൻ എഞ്ചിനീയറിംഗ് കോളേജ് പ്രിൻസിപ്പൽ ഡോ. അബ്ദുൾ നിസാർ എല്ലാവർക്കും സ്വാഗതം ആശംസിച്ചു. മാനേജർ ഡോ. എ.ആർ. ജോൺ അധ്യക്ഷത വഹിച്ച യോഗത്തിൽ കോളേജ് ബർസാർ ഫാ. ജിം കാർവിൻ, ഡിൻ ഡോ. സാംസൺ എ.എന്നിവരും സന്നിഹിതരായിരുന്നു. മുഖ്യാതിഥി ക്രിസ്തുദാസ് പിതാവ് കുട്ടികൾക്ക് അവരുടെ ലക്ഷ്യം പ്രാപ്തമാക്കാൻ ഉതകുന്ന രീതിയിലുള്ള പ്രചോദനാത്മകമായ സന്ദേശം പങ്കുവെച്ചു. പി.ആർ. ഓ. ഫ്രൊഫ. അഭിജിത്ത് ആർ. പി. എല്ലാവർക്കും നന്ദിയർപ്പിച്ചു. പ്രസ്തുത സമ്മേളനത്തിൽ വിദ്യാർത്ഥികളും അവരുടെ രക്ഷകർത്താക്കളും അധ്യാപകരും പങ്കെടുത്തു.



മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെ എൻ.എസ്.എസ്.എസ്. നേതൃത്വത്തിൽ പോൾ ബ്ലോംസ് ടീമും റീജിയണൽ ക്യാൻസർ സെന്ററും ചേർന്ന് ഏകദിന രക്തദാന ക്യാമ്പ് സംഘടിപ്പിച്ചപ്പോൾ



ലഹരിവിരുദ്ധ റാലി

തിരുവനന്തപുരം: കഴക്കൂട്ടം മരിയൻ എൻജിനീയറിംഗ് കോളേജും എക്സ്പ്രസ്സ് സ്റ്റാഫ് അസോസിയേഷൻ തിരുവനന്തപുരം ജില്ലാ കമ്മിറ്റിയും സംയുക്തമായി ലഹരിവിരുദ്ധ റാലി നടത്തി. സമാപനം മാന്വിയം റിപ്പബ്ലിക് മന്ത്രി എം. ബി. രാജേഷ് ഉദ്ഘാടനം ചെയ്തു. മരിയൻ എൻജിനീയറിംഗ് കോളേജിലെയും മരിയൻ കോളേജ് ഓഫ് ആർക്കിടെക്ചറിലെയും വിദ്യാർത്ഥികൾ ലഹരിവിരുദ്ധ പരിപാടികൾ അവതരിപ്പിച്ചു. എക്സ്പ്രസ്സ് കമ്മീഷണർ മഹിപാൽ യാദവ്, എം.എൽ.എ.മാരായ വി. ജോയ്, ഐ.ബി. സതീഷ്, വി.കെ. പ്രശാന്ത്, ഡി.കെ. മുരളി, മരിയൻ എൻജിനീയറിംഗ് കോളേജ് മാനേജർ ഫാ. എ.ആർ. ജോൺ, ജില്ലാ പഞ്ചായത്ത് പ്രസിഡന്റ് ഡി. സുരേഷ് കുമാർ, എം. വിശാഖ്, ആർ.പി. അഭിജിത് എന്നിവർ സാന്നിധ്യം.

ഹരിതകേരളം മിഷൻ

പരിസ്ഥിതി

CERTIFICATE OF APRECIATION

This certificate is presented to **MARIAN ENGINEERING COLLEGE, KAZHAKUTOM** in recognition of their exemplary effort towards achieving net zero emission in association with Haritha Kerala Mission under the campaign "Net zero Carbon Kerala through the people". The activities undertaken by the institution for the purpose demonstrates its commitment to a sustainable environment and contribute significantly to combating climate change.

Thiruvananthapuram
24-03-2025

Dr. T.N. Seema
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Vice Chairperson, Harithakeralam Mission

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INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) MEC CHAPTER

➤ 35th ISTE STATE CONVENTION OF KERALA SECTION.

The 35th ISTE State Convention of Kerala Section, alongside the National Seminar on “Transformative Innovations Shaping the AI-Driven Epoch,” was held at Marian Engineering College, Trivandrum, on January 18, 2025.

Dr. Abdul Nizar M., Principal of Marian Engineering College, delivered the welcome address, expressing gratitude to the dignitaries and participants. Dr. A Samson, Dean of Marian Engineering College, provided an overview of the convention’s objectives, emphasizing the need to bridge the gap between academia and industry to tackle real-world challenges using AI technologies. Dr. Vijayakumar K., Chairman of ISTE Kerala Section, reflected on ISTE’s vital role in promoting technical education and research, focusing on how AI is revolutionizing various sectors and the responsibility of educators in adapting to this change. The event was inaugurated by **Dr. Usha Titus IAS**, CMD of ASAP Kerala, who lit the ceremonial lamp and delivered the inaugural address. She spoke passionately about the potential of AI to empower future generations, stressing the importance of ethical AI development and inclusive growth.



➤ SPECIAL ADDRESS AND SOUVENIR RELEASE:

Rev. Fr, George Paul, Former Manager of Marian Engineering College, released the souvenir, which

documented the milestones of ISTE Kerala Section and key insights on AI advancements.



• FELICITATION ADDRESSES:



Dr. Shalij P.R., Director of Technical Education and Member of the National Executive Council of ISTE, congratulated the organizers and emphasized the role of AI in transforming technical education to meet global standards.

Ashaletha Thampuran, Former Principal of CET and Executive Director of Mohandas College of Engineering and Technology, shared her expertise on AI’s potential to enhance interdisciplinary learning and solve complex problems.



Dr. Manoj M., Organizing Secretary, expressed his heartfelt thanks to all the dignitaries, participants, and organizing committee members. The inaugural function concluded with the National Anthem.

➤ AWARD CEREMONY:

The ISTE Kerala Section recognized individuals and Colleges for their outstanding contributions to education, technology, and research during the

award ceremony, led by Prof. E.C. Ramakrishnan, Secretary of ISTE Kerala Section.

Dr. Manoj M., Organizing Secretary, expressed his heartfelt thanks to all the dignitaries, participants, and organizing committee members for their support and efforts in making the event successful. The inaugural function concluded with the National Anthem.

➤ PANEL DISCUSSION



A thought-provoking panel discussion on "Leveraging AI to Mitigate Student Migration" was held as part of Convention at Benzigar Hall. A thought-provoking panel discussion featured eminent experts, including:

- **Dr. Bindu G.R.**, Retd Principal, Engg college Trichur
- **Dr. Anil B.**, Retd. Principal, Barton Hill
- **Mr. Sreekumar V.**, Centre head Tata Elxsi
- **Dr. Nidhi MB**, ISTE National Executive Committee member, Professor, MBCET

The discussion concluded with a consensus that AI, when strategically implemented, can play a transformative role in reducing student migration by offering quality education, career opportunities, and a globally competitive learning environment within the country.

➤ NATIONAL SEMINAR:

A National Seminar on 'Transformative Innovations shaping the AI Driven Epoch' was conducted on the afternoon session of the Convention .

- Subtopics of the Seminar were
- Advancements in AI Algorithms and Technologies
- Human-Centric AI Innovations
- AI-Enabled Education and Skill Development
- Societal Impacts and Challenges of AI
- Security and Privacy in the AI Era
- Global Trends and Future Directions in AI
- AI for Environmental Sustainability

• AI in Autonomous Systems

A total of 15 technical papers were received, out of which 9 were carefully selected for presentation after a thorough review process. The abstracts of the selected papers have been included in the souvenir. The paper presentations were held at the IEDC Hall, where researchers explored advanced AI concepts and real-world case studies. These sessions highlighted innovative research and practical applications, fostering engaging discussions among the participants.



Best paper of the national seminar was bagged by Prof Poorna B R , Assistant Professor, mar Baslious College of Engineering for her paper titled 'Machine Learning Techniques for health Care Recommendation Systems'



➤ FACULTY INDUCTION PROGRAM

The ISTE Faculty Induction Program, organized by the ISTE Chapter of Marian Engineering College, was successfully conducted on **December 5, 2024**, with the aim of nurturing pedagogical excellence and fostering a culture of reflective teaching among newly inducted faculty members. The Principal of Marian Engineering College, **Dr. Abdul Nizar A**,

welcomed the participants. The program was **inaugurated by Dr. B. Anil**, former Chairman of ISTE Kerala Section and former Principal of Government Engineering College, Barton Hill. In his inaugural address, Dr. Anil emphasized the evolving role of teachers in shaping the future of technical education and provided valuable insights into the ethical and professional responsibilities of educators. He also handled a **meaningful and engaging session in the forenoon**. The event featured enriching experience-sharing sessions by senior faculty members **Dr. Samson A, Prof. Balu John, Dr. Sreelekshmi, and Prof. Harikumar R**. They reflected on their personal journeys in the teaching profession, shared practical strategies for classroom management, and offered **valuable suggestions for professional growth** and effective student engagement. A unique feature of the program was the **screening of video-recorded classroom sessions** by a few newly recruited teachers. These recordings were followed by **constructive feedback and suggestions for improvement**, encouraging self-reflection and peer learning.



➤ WELLNESS SESSION THROUGH YOGA AND MEDITATION



The ISTE Chapter of Marian Engineering College organized a two-day Wellness Session through Yoga and Meditation for staff members on the 10th

and 11th of February 2025. The session was conducted by a team of experienced practitioners from the Sahaja Yoga team, who introduced participants to simple and effective techniques for achieving inner balance and mental well-being. The program focused on guided meditation, breathing techniques, and stress-relieving exercises designed to help faculty manage anxiety, improve concentration, and enhance overall wellness. The sessions witnessed enthusiastic participation from staff members.

➤ FACULTY DEVELOPMENT PROGRAM

ISTE chapter of Marian Engineering College in association with Marian Business school conducted a 3 day FDP on 'Entrepreneurship and IPR' from 6th to 8th January 2025. This FDP was conducted with the objective of empowering faculty with entrepreneurial knowledge and IPR awareness. The program aligns with the KTU curriculum focusing on the integration of theory, practical exposure, and collaborative learning. The FDP featured a panel of esteemed resource persons from academia and industry, each bringing specialized knowledge and experience in the fields of entrepreneurship and intellectual property rights. The resource persons are Dr. Shibulal A L, HOD MBS, Dr. Vineetha Mathew, Faculty MBS, Ms. Saranya Sathyanesan, Faculty MBS, Mr. Ninu P John, Faculty MBS, Dr. Narayanan S, Professor Department of Civil Engineering, Dr. Manoj M, Professor Department of Electronics and Communication Engineering. Prof. Ramola Joy and Prof. Sanobiya B S effectively coordinated the program.



➤ WORKSHOP ON RAPID PROTOTYPING

A workshop for faculty members on 'Rapid Prototyping' was conducted on 15th February 2025, organized by the ISTE Chapter of Marian Engineering College in association with the Fab Lab of the Department of Mechanical Engineering. The session was handled by Prof. Maneesh, who served

as the resource person, providing valuable insights into the concepts, applications, and advancements in rapid prototyping technologies. The workshop covered key topics such as 3D printing techniques, material selection, design-to-product workflow, and practical demonstrations using Fab Lab equipment.



➤ HANDS ON TRAINING ON 'EMERGENCY CARE'



As part of the Women's Day celebrations, the Women's Cell in association with the ISTE Student Chapter organized a hands-on training session on "Emergency Care – Basic Life Support Measures". The session was conducted by Dr. Nissi Jose and Dr. Vineetha Nair, who shared critical insights and demonstrated essential first aid and CPR techniques. Around 120 students from various departments attended the session, which focused on equipping them with practical skills to respond swiftly and effectively in medical emergencies. The training included live demonstrations, allowing students to gain confidence in performing basic life support procedures.

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) MEC STUDENTS CHAPTER

Marian ISTE Student Chapter was inaugurated by Dr. Nidhi M.B, ISTE National Executive on 16-1-25



➤ TRAINING AND GUIDANCE TO FIRST YEARS:

The ISTE Students' Chapter of Marian Engineering College organized a training and guidance session for first-year students on 23rd February 2025. The primary objective of the session was to provide the newcomers with an overview of the ISTE Students' Chapter, its activities, and the benefits of active participation. The session was led by Aksh Varghese of S6 EEE, a senior member of the chapter, who shared valuable insights on how ISTE plays a pivotal role in shaping the technical and professional development of students. He elaborated on the various programs, workshops, competitions, and opportunities facilitated by the ISTE Chapter.



➤ QUIZ COMPETITION:

The Marian ISTE Students' Chapter organized a quiz competition titled "Testing Knowledge on Electrical History" on 23rd January 2025, aimed at enriching students' understanding of key milestones and pioneers in electrical engineering. The event was conducted in two separate sessions — one for S2 students and another for higher semester students, ensuring age-appropriate and engaging participation.



➤ DEBATE COMPETITION

The **Marian ISTE Student Chapter** organized a vibrant **Debate Competition** on **29th January 2025**, encouraging students to develop their communication and critical thinking skills. The event featured active participation from various semesters and was marked by spirited exchanges of ideas. The team of students from S2 and the team from S6 Civil Engineering were declared winners of the competition.



➤ INDUSTRIAL VISIT

- The Marian ISTE Students' Chapter organized a successful industrial visit to Seaboy Fisheries Pvt. Ltd. on 30th January 2025. The visit offered students a unique opportunity to gain first-hand insight into the operations and processes of the seafood processing industry. During the visit, students observed various stages of fish processing, packaging, and quality control measures implemented at the facility. They also learned about industry standards, hygiene protocols, and export procedures followed by the company.



- The Marian ISTE Student Chapter organized an industry visit to the Liquid Propulsion Systems Centre (LPSC), Valiamala on 21st March 2025. The visit was made even more enriching by an interactive session with the scientists at LPSC. They shared valuable insights into the latest developments and innovations in the field of liquid propulsion systems.



➤ GTECH KERALA MARATHON 2025



As part of the activities under ISTE Student Chapter 129, a special mentorship session was organized on 5th February 2025 for first-year students in preparation for the upcoming GTECH Kerala Marathon 2025.

Around 140 first-year students served as volunteers for the **GTECH Kerala Marathon 2025**, held on 9th February 2025. Their relentless dedication, enthusiasm, and passionate involvement were highly appreciated by the GTECH organizers.



➤ MOTIVATION SESSION

The ISTE Student Chapter organized an inspiring motivational session titled "Catalyst for Change" on 6th February 2025, conducted by Corporate Trainer Ms. Sangeetha Elizabeth Panicker. Her insightful and engaging presentation left a strong impact on the students, encouraging them to embrace change,

cultivate a growth mindset, and approach challenges with confidence. The session effectively transformed the attitudes and perspectives of the attendees, making it a truly meaningful experience.



➤ VEDIC MATHEMATICS

The **ISTE Student Chapter** organized an exciting and intellectually stimulating event on **Vedic Mathematics** on **7th February 2025**. The session aimed to introduce students to the fascinating world of Vedic mathematical techniques, known for their speed, simplicity, and efficiency. The event successfully challenged the minds of participants, unlocking the secrets of ancient Indian mathematical wisdom. Students enthusiastically engaged with the problems and techniques presented, sharpening their mental calculation skills and gaining new perspectives on solving mathematical problems. Sudheesh Krishna and Abhijith Jayakumar of S6 AH emerged winners.



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➤ TECH MEME CONTEST

The **ISTE MEC Students' Chapter** organized a fun-filled and creative **Tech Meme Contest**, encouraging students to showcase their wit and technical insight through humour. Participants submitted original memes combining technology-related themes with creativity and satire. The contest received an enthusiastic response, with entries reflecting a clever blend of technical knowledge and relatable student experiences. Neeraj P S of S4 R2 was the winner of the contest.



➤ WORLD WATER DAY

In observance of World Water Day, students of the ISTE Student Chapter took proactive steps to protect one of our planet's most vital resources — water. On 22nd March 2025, they undertook a pond cleaning initiative in front of the Civil Engineering Department. The activity involved the removal of debris and waste from the pond, contributing not only to a cleaner environment but also to the beautification of the campus surroundings. The event reflected the students' commitment to environmental sustainability and their sense of responsibility towards nature.



ARTS DAY

The **College Arts Festival – Arts Day 2025** was celebrated with great enthusiasm on **28th March 2025**. The event began with a **formal inaugural ceremony**, setting the tone for a vibrant day filled with creativity and cultural expression.

A wide array of performances and competitions took place across **four venues**:

- Open Auditorium
- Bishop Benziger Hall
- Seminar Hall (ECE Department)
- Seminar Hall (ME Department)

The campus was filled with energy as students from all departments showcased their talents in music, dance, drama, and other art forms. The festival provided a platform for students to express their artistic abilities and fostered a spirit of unity and collaboration.

The day concluded with the **announcement of winners** from various events, marking the end of a

memorable celebration. **Arts Day 2025** stood out as a true testament to passion, teamwork, and the unifying power of the arts. Department of CSE bagged the overall champions trophy for Arts Fest. Akash Varghese and Shabnas Nizamudeen Sheeba of S6 EEE were awarded the titles of *Kalaprathibha* and *Kalathilakom*, respectively, for their outstanding performances in the Arts Festival.



COLLEGE DAY

The College Day Celebration 2025 was held with grandeur and enthusiasm on 29th March 2025 at the college open auditorium, marking a fitting conclusion to a successful academic year.

The event was jointly inaugurated by Shri. P. Vijayan IPS, Additional Director General of Police and Intelligence Chief of Kerala Police, and Rt. Rev. Dr. Christudas Rajappan, Auxiliary Bishop of the Latin Archdiocese of Trivandrum. The ceremony commenced with a warm welcome address, followed by the lighting of the ceremonial lamp by the distinguished guests.



Both Shri. P. Vijayan and Rt. Rev. Dr. Christudas delivered inspiring speeches, emphasizing the significance of education, discipline, and the role of youth in nation-building. Their words resonated deeply with the audience, leaving a lasting impression.

The event was further graced by addresses from Dr. A. R. John (Manager, MEC), Dr. A. Samson (Dean,

MEC), and Dr. Abdul Nizar (Principal, MEC), who appreciated the dedication and collaborative efforts of students and faculty in achieving academic and extracurricular excellence.

Following the formal inauguration, the celebration continued with a vibrant showcase of cultural performances, including music, dance, and artistic displays by talented students from various departments.



➤ RECOGNITION AND CERTIFICATE DISTRIBUTION



As part of the College Day 2025 celebrations, a special segment was held to honor the outstanding achievements of both students and faculty members. Students who excelled in university examinations, technical competitions, sports, arts, and various club activities were recognized and awarded certificates for their accomplishments. In addition, faculty members were acknowledged for their notable contributions in areas such as research publications, mentoring, academic excellence, and community service. Certificates and accolades were distributed by the distinguished guests and dignitaries present on stage, amidst loud applause and appreciation from the audience. The ceremony was a proud testament to the dynamic academic and extracurricular culture that defines Marian Engineering College

➤ PROSHOW

The College Day 2025 celebrations concluded on a high note with a mesmerizing proshow by renowned Indian playback singer Antara Mitra.



Her soulful voice and high-energy performance captivated the audience, creating a vibrant and unforgettable atmosphere. The open auditorium echoed with cheers and applause as students and staff enjoyed a spectacular musical experience. This grand finale added a sparkling touch to the celebrations, leaving the audience in awe and making College Day 2025 a truly memorable event.

SPORTS DAY

The **Annual Sports Day 2025** was conducted with great enthusiasm and team spirit on **25th January 2025** at the college ground. To ensure fair participation, departments were grouped for balanced team strength, forming five groups: CS, EC, AH&MBA, ME, and CE–EEE&ES.

The event commenced at 9:00 AM with a prayer song by the college choir, followed by a welcome address by Mrinal Sharma, a final-year CS student. A march past by all departments marked the beginning of the celebrations.

The flag hoisting and inaugural address were delivered by Shri. Gopakumar R, Joint Commissioner of Excise (Intelligence & Investigation), while the presidential address was delivered by Principal Dr. Abdul Nizar M. A special address was given by Dr. Fr. A. R. John, Manager of the institution.

A token of appreciation was presented to Rishikesh Varier (ES Department) for his outstanding achievement as Mr. Trivandrum Junior Champion. The torch relay was conducted by all department captains, followed by the student oath, led by Abhy Uday (EC Department Captain). The vote of thanks was proposed by Zeedon C Mendez (ES Department Captain).

The athletics events included:

Track: 100m, 200m, 400m, 800m, 1500m (boys), 4x100m relay, 4x400m relay, and mixed relay

Field: Long jump, shot put, and discus throw

The Individual Champion – Men was Abhinav Earnest (First Year AI & ML) and the Individual Champion – Women was Nakshatra K.S (Second Year CS).

Apart from athletics, team games such as cricket, football, volleyball, basketball, and throwball (girls only) were also conducted, encouraging teamwork and sportsmanship across all departments.



SISCON 2025

- The **logo unveiling ceremony** of the First IEEE International Conference on “Smart and Intelligent Systems” SISCON 2025 was held on 20th February 2025. The event was graced by distinguished dignitaries: Dr. Sunil T. T., Director of ICFOSS, and Prof. Nandan S, Secretary of IEEE India Council and IEEE Kerala Section, who jointly unveiled the official logo of the upcoming international conference. The ceremony marked a significant milestone in the lead-up to the prestigious event, symbolizing the beginning of a collaborative journey in advancing research and innovation in smart and intelligent systems.



- The brochure, flyer, and official website of the First IEEE International Conference on “Smart and Intelligent Systems” were formally launched on 6th March 2025 by Dr. Rajasree M. S., CEO of TrEST Research Park and Former Vice

Chancellor of KTU. The event marked a key milestone in the preparations for the international conference, showcasing the vision, themes, and objectives of the event.



REPUBLIC DAY CELEBRATION



The 76th Republic Day was celebrated with patriotic fervor and dignity on 26th January 2025 at the college campus. The ceremony began with the hoisting of the national flag by the Principal, Dr. Abdul Nizar M, followed by the Republic Day address, in which he emphasized the values enshrined in the Constitution and the responsibility of youth in nation-building.

The event was attended by faculty, staff, and students from the NSS unit of College.

INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE -IEDC

➤ INCUBATION OF 'THETHERUP'

ThetherUp is an innovative startup incubated under Marian IEDC, founded by Electronics and

Communication Engineering students. The company focuses on developing cutting-edge solutions that leverage technology to address real-world challenges. Its mission is to create products that are not only technically advanced but also socially impactful. Marian IEDC provided ThetherUp with essential support, including mentorship, resources, and networking opportunities. This support enabled the startup to evolve into a dynamic entity, participating in entrepreneurial programs, pitching events, and fostering industry connections.

The event was inaugurated by the Honorable Speaker of State Assembly, Mr A.N Shamseer and valedictory function was presided by the KTU Vice Chancellor Dr K. Siavaprasad. The keynote addresses were delivered by Dr Narayanan Neithalath, Professor School of Sustainable Engineering and Built Environment, Arizona State University; Prof Ir. Mo Kim Hung, Sunway University Malaysia, and Dr Kamal Laksiri, Governor ASCE Region 10.



➤ PATENT APPLICATIONS

Marian IEDC has successfully facilitated the filing of two innovative patent applications, underscoring its commitment to technological advancement and research-driven entrepreneurship.

1. Comfort Jacket for AHD (Adult Heart Disease) Patients: This patent focuses on a specialized jacket designed to provide comfort and health monitoring for AHD patients. The jacket integrates smart fabrics with embedded sensors to monitor vital signs, such as heart rate and temperature, ensuring continuous health assessment without invasive devices. Its lightweight, breathable material enhances patient comfort during daily activities, representing a fusion of technology and healthcare innovation.
2. The second patent application represents another leap in practical innovation. This project

demonstrates creative problem-solving in addressing specific industry or healthcare challenges, showcasing the versatility of student-led research at Marian IEDC.

➤ PATENT FILED

A patent has been successfully filed for an innovative Dual-Stage Thermal Management System for Electric Vehicles (EVs), designed to enhance the efficiency and performance of EVs by effectively regulating their thermal conditions. This system addresses one of the critical challenges in electric mobility—maintaining optimal temperatures for both the battery and the power electronics, which directly impacts the vehicle's range, safety, and longevity. The dual-stage system operates through two integrated mechanisms: the first stage focuses on active cooling using advanced liquid-cooling techniques, while the second stage utilizes passive thermal regulation for energy efficiency during low-demand conditions. This combination ensures that the vehicle's components remain within safe temperature limits, even under extreme environmental conditions or heavy usage. The method also minimizes energy consumption compared to traditional thermal management systems, improving the overall performance of the EV. This patent represents a significant step towards sustainable electric transportation solutions. By optimizing thermal control, the system not only extends battery life but also enhances driving comfort and reduces maintenance costs.

➤ CLUSTER LEAD FOR TRIVANDRUM DISTRICT

Marian IEDC has been honored with the prestigious role of Cluster Lead for the Trivandrum district, a recognition that underscores its leadership in promoting innovation and entrepreneurship. This selection is the result of consistent efforts in nurturing student startups, facilitating impactful projects, and driving entrepreneurial activities across the region. As the Cluster Lead, Marian IEDC will coordinate with other IEDCs in Trivandrum, organizing events,



workshops, and mentorship programs to strengthen the regional startup ecosystem. This role involves fostering collaborations, sharing best practices, and representing the district in state-level entrepreneurial forums.

This achievement reflects Marian IEDC's growth as a hub for young innovators, inspiring students to take bold steps in their entrepreneurial journeys. It also positions the institution as a key contributor to Kerala's vision of becoming a leading startup. IEDC Coordinator Dr. Manoj received the 2nd top lead Enabler Award from Hon. Finance minister Sri K N Balagopal on 29-3-2025.

➤ IIM TRICHY VISIT

On February 1st, 2025, students of Marian Engineering College visited the Indian Institute of Management (IIM) Trichy for a one-day academic enrichment program. Organized to enhance students' understanding of professional development and management practices, the visit featured interactive sessions with distinguished faculty members. Prof. Rajesh from the Strategic Management Department discussed strategic decision-making, leadership, and problem-solving techniques, while Prof. Vinod from the HR Department offered insights into core human resource practices.



➤ THE PERFECT TRAJECTORY 3.0

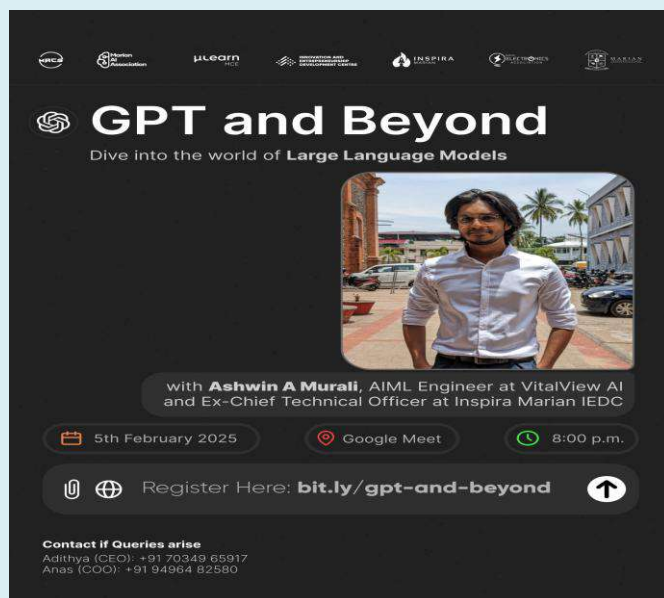
The Perfect Trajectory 3.0 was a two-day orientation program held on 14th and 15th February at the IEDC Hall, designed to equip newly elected IEDC team leads from across Kerala with essential leadership skills. Day 1 featured a keynote address by Mr. Anoop Ambika, CEO of Kerala Startup Mission, followed by engaging sessions including the icebreaker activity "HUGO (Human Bingo)," an inspiring talk by Mr. Abidh Habeeb, a team-building Treasure Hunt, and an informative session on IEDC operations by alumnus Mr. Manoj Sreekumar, capped off with a vibrant cultural

evening. Day 2 included a talk on leadership and innovation by Mr. Bergin S Russel, a networking session for feedback and idea sharing, a strategic planning session led by Dr. M Manoj, and a closing reflection on IEDC leadership by Mr. Nandu Bhadran, wrapping up with a thank you note and recap of the impactful event.



➤ GPT AND BEYOND

The online workshop "GPT and Beyond," held on 5th February 2025 via Google Meet, was organized by Inspira Marian in collaboration with μ Learn MCE and led by Ashwin A Murali, Ex-CTO of Inspira Marian IEDC and AIML Engineer at VitalView AI. The session explored the capabilities and future of Large Language Models (LLMs), covering topics like embeddings, prompt engineering, RAG, advanced retrieval methods, and model fine-tuning. With over 200 enthusiastic participants from various colleges, the workshop was highly interactive, insightful, and impactful.



➤ FROM IDEA TO IPR

"From Idea to IPR," held on 19th February 2025 at the IEDC Hall, featured Nijin K Varghese, a final-year Computer Science student and founder of FindaStartup, who shared his journey in innovation

and entrepreneurship while highlighting the importance of protecting ideas through IPR. The session covered key concepts such as the distinction between discovery, invention, and startups, types of startups, business models, funding options, and elements of IPR like patents, trademarks, and brand identity. Real-world cases like Samsung vs. Apple illustrated IPR relevance, and the event concluded with an interactive Q&A, raising awareness about IP protection and its role in supporting innovation within the startup ecosystem.



➤ MAKE MY WEB

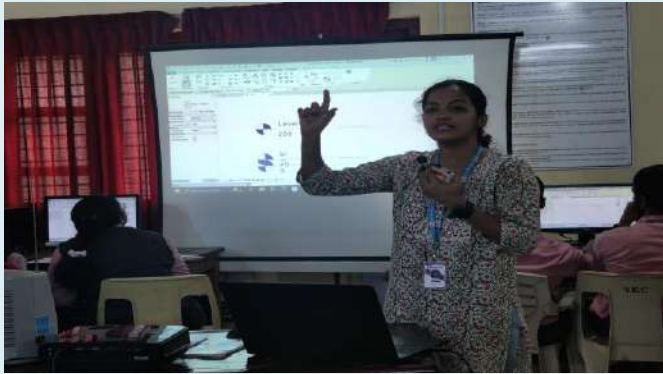
The MakeMyWeb Bootcamp, held from March 1 to 8, 2025, was a 7-day online training program organized by μ Learn MCE and Inspira IEDC, led by Aswin Asok, Co-Founder of MakeMyPass and The Hoomans Project. Designed to provide a hands-on introduction to web development, the bootcamp covered HTML, CSS, JavaScript, and GitHub basics, with daily quizzes and project-based learning to reinforce concepts. Participants built and deployed web applications using GitHub Pages, and the final day featured a recap, Q&A session, and career guidance, leaving attendees with solid foundational skills and practical experience in web development.



➤ REVIT WORKSHOP

The Revit Workshop, held on 11th March 2025 at the CAD Lab in the Civil Department, was an exclusive skill-building session for S4 Civil Engineering students led by CAD Engineer

Aiswarya S. Focused on Building Information Modeling (BIM), the workshop introduced Revit's core features, including measurement tools, wall architecture, and basement design. Through live demonstrations and guided exercises, students gained hands-on experience in drafting structurally sound building models and placing architectural elements like doors and windows.



➤ BEYOND PIXELS

The Beyond Pixel workshop, held on 14th March 2025 at the IEDC Hall, was a design-focused session led by Aditi Ghosh and K H Arjun, engaging 56 participants in bridging creative skills with real-world applications. The morning session covered user-centric design, branding, communication, and design thinking, with group activities like persona creation and the Crazy 8s method fostering collaboration and innovation. In the afternoon, participants explored hands-on projects using Figma and learned about branding and identity development. Concluding at 4:00 PM, the workshop successfully combined theory and practice, boosting participants' design skills and creative confidence.



➤ EMERGING TRENDS IN ELECTRONICS

The expert talk "Emerging Trends in Electronics: Next-Gen Electronics Powering Possibilities" was held on 14th March 2025 via Google Meet, featuring Mr. Rony Alex Thomas, SoC Design

Verification Engineer at Intel. Organized by the IEDC Electronics Department, the session offered insights into key sectors like semiconductors, embedded systems, and technologies such as AI, IoT, and Edge Computing.



➤ QUICKCODE

Quickcode, held on March 11, 2025, was a high-energy mini hackathon that challenged participants to think creatively and code efficiently within a limited timeframe. Organized as a lead-up to larger tech events, it brought together passionate developers to build impactful prototypes across five diverse domains—law, education, healthcare, legal, and fashion.



CAREER GUIDANCE AND PLACEMENT UNIT – ACTIVITIES

➤ INTERACTION WITH INFOSYS



An interactive technical quiz competition was conducted as part of the "Interaction with Infosys" event on 21st January 2025. The event aimed to engage

students in industry-oriented technical knowledge and problem-solving. Siby C. R. and Midhun Sankar, final year students of S8 Computer Science and Engineering, showcased their skills and secured the Second Prize in the quiz competition.

➤ INTERACTION WITH INAPP

As part of the “Interaction with InApp” initiative, a **hackathon event titled “InApp Innovate”** was conducted on **19th January 2025**, providing students with an opportunity to showcase their creativity, coding skills, and problem-solving abilities in a competitive setting. A team of students from **S6 Computer Science and Engineering** emerged as the **Second Prize winners**, demonstrating innovative thinking and technical proficiency in addressing real-world challenges.



➤ PEER LEARNING

- A Peer Learning session was conducted on 21st January 2025, where students who were successfully placed at Suntec Business Solutions shared their experiences and strategies for cracking interviews.

During the session, they offered practical tips on resume building, technical and HR interview preparation, aptitude tests, and the importance of communication skills. Their insights provided valuable guidance and boosted the confidence of fellow students preparing for campus placements.



As part of the ongoing Peer Learning initiative, a knowledge-sharing session was conducted on 21st January 2025, featuring Giridhat M from Computer Science Department. Giridhat led an



engaging session on UI/UX Design, introducing participants to key concepts such as user interface principles, user experience strategies, design tools, and real-world applications. The session provided valuable insights into the growing field of UI/UX.

➤ HIGHER EDUCATION & UPSC- THE ROAD TO SUCCESS

An exclusive seminar titled “Higher Education & UPSC – The Road to Success” was conducted on **31st January 2025** by experts from the **IAS Academy**. The session aimed to provide students with insights into various **higher education opportunities** in India and abroad, along with a focused orientation on **UPSC civil service examinations**.

The session covered preparation strategies, time management, choice of optional subjects, and the importance of current affairs and general studies.

The seminar witnessed active participation from students across departments, inspiring many to consider competitive exams and postgraduate studies as part of their career path.



BHOOMITRASENA CLUB

The Bhoomitrasena Club of Marian Engineering College organized a **Cleaning Drive at Shanghumugham Beach** on **16th February 2025** as part of its environmental awareness initiative.

Under the leadership of **Prof. Deepthy Denison**, student members actively participated in the drive, collecting and disposing of waste materials to restore cleanliness and promote environmental responsibility. The event served as a strong reminder of the importance of **community involvement** in preserving natural spaces.



DRUG AWARENESS CAMPAIGN



Marian EDUcity, in association with the **Kerala State Excise Staff Association**, organized a **Drug Awareness Campaign** on **17th March 2025** at **Manaveeyam Veedhi**, aiming to raise public awareness on the dangers of substance abuse. The campaign featured impactful **student performances**, including a **thought-provoking play** and a **mime act**, both powerfully portraying the grim realities of drug addiction and its destructive impact on individuals, families, and society. The event was graced by **Rev. Fr. Dr. A. R. John**, Manager of Marian Engineering College, who addressed the gathering with an inspiring message, urging collective action against the growing menace

of drug abuse. The campaign served as a strong call to action, emphasizing the need for **community awareness, preventive education, and youth engagement** in building a drug-free future.

MoU WITH INDIAN INSTITUTE OF INFRASTRUCTURE AND CONSTRUCTION (IIC)

Marian Engineering College (MEC), Trivandrum, signed a Memorandum of Understanding (MoU) with the Indian Institute of Infrastructure and Construction (IIIC), Kollam, marking a significant step towards academic and industry collaboration in the field of infrastructure and construction. The MoU was signed in the esteemed presence of Dr. B. Sunilkumar, Director of IIIC; Rev. Fr. Dr. A. R. John, Manager, MEC; Dr. Samson A, Dean, MEC; Dr. Jomy Thomas, Dean, IIIC; along with Dr. Narayanan S and Mr. Abhijith R P. This partnership aims to enhance student training, faculty exchange, skill development, and joint initiatives in research and development. The collaboration will open up new avenues for students in terms of practical exposure, internships, and employability in the construction and infrastructure sectors.



‘NET ZERO CARBON’ AWARD

Marian Engineering College, Trivandrum was honored with a Certificate of Appreciation by the Government of Kerala for its committed efforts towards achieving Net Zero Carbon Emission, in association with the Haritha Keralam Mission. The award was presented during a special ceremony held at Tagore Theatre, Trivandrum, on 25th March 2025. The certificate was received from Dr. Jiju P Alex, Member, Kerala State Planning Board, and Dr. T. N. Seema, State Co-ordinator, Navakeralam Karma Padhathi. This recognition marks a significant milestone in the college's journey towards sustainability, environmental consciousness, and green campus practices.



“VIDYA TO VIJNANAM – INFORMATION TO WISDOM”- INTERACTIVE SESSION

Faculty Members from Marian Engineering College, Trivandrum participated in an insightful interactive session with Dr. Anil Sahasrabudhe, Chairman of the National Educational Technology Forum (NETF), NAAC, and NBA, on 24th January 2025. The session was part of the prestigious lecture series “Vidya to Vijnanam – Information to Wisdom”, organized by *The Voice of Thiruvananthapuram*. Dr. Sahasrabudhe shared his vast experience and perspectives on transforming education through technology, innovation, and value-based learning. The interaction provided students and faculty members a unique opportunity to engage in meaningful discussions on curriculum development, accreditation processes, and the future of education in India.



NATIONAL SCIENCE DAY

National Science Day was celebrated with great enthusiasm at Marian Engineering College on 28th February 2025. The event was jointly organized by The ASCE and IEI Student Chapters to honor the spirit of scientific inquiry and innovation. The celebration was inaugurated by two distinguished guests — Sri. M. Chandradathan, *Padma Shri Awardee*, Mentor to the Chief Minister of Kerala and Former Director of ISRO Centres, and Ms. Parvathy V. IIS, Director, Central Bureau of Communication. In their inaugural addresses, both dignitaries emphasized the importance of scientific

temper, innovation, and the role of youth in nation-building. The event also included a prize distribution ceremony, where winners of various competitions held as part of the National Science Day celebrations were awarded.



COLLABORATION WITH ‘HEX 20’

On March 17, 2025, Technopark-based small satellite manufacturing startup **HEX20** inaugurated a fully functional **Satellite Control Centre** on the Marian Engineering College campus. This ground station is set up for command, telemetry, and data reception from HEX20’s upcoming nanosatellite **Nila**, which was successfully launched aboard a SpaceX Falcon 9 (Transporter-13 mission) in mid-March



The partnership goes well beyond infrastructure:

- **Training:** HEX20 is actively training faculty members and students at the college to operate the ground station and manage satellite operations
- **Academic Collaboration:** This collaboration positions MEC to contribute to in-orbit payload demonstrations and future satellite missions, including a planned 50 kg satellite launch on an ISRO vehicle

- **Research & Ecosystem Impact:** By integrating satellite control and mission operations on campus, the initiative boosts real-world research opportunities, strengthens the regional space tech ecosystem, and fosters hands-on student learning.

LAUNCH OF ELECTRIC GO-KART

Marian Engineering College, Trivandrum, proudly marked a significant milestone with the official launch of an innovative Electric Go-Kart, developed by its engineering students. The launch event was graced by Mr. Ramadurai Ram, Managing Director of Nissan Digital India LLP, who inaugurated the project. The electric go-kart, a testament to student innovation and technical excellence, features swappable batteries and a dual-stage thermal management system for efficient battery cooling. This pioneering cooling technology has been filed for a patent, highlighting its potential impact on the future of EV battery systems. The project was supported with a grant of ₹11.9 lakhs from ANERT (Agency for New and Renewable Energy Research and Technology) under the initiative titled: *"Design and Fabrication of an Electric Go-Kart with Improved Cooling Technology for Batteries."*



FACULTY ACHIEVEMENTS

➤ PRIZE AT INTERNATIONAL ENERGY FESTIVAL -KERALA

Professor Balu John, Head of the Department of Artificial Intelligence and Machine Learning at Marian Engineering College, was honored with a prestigious award at the International Energy Festival of Kerala (IEFK 2025) held from 7th to 9th

February 2025. The event, organized by the Energy Management Centre (EMC), Kerala under the Department of Power, was conducted under the theme "Decarbonizing Kerala."



➤ "ASPIRANTS" SPECIAL CATEGORY AWARD BY IIT-MADRAS / NPTEL

The MEC NPTEL Local Chapter—under SPOC Keerthi Krishnan—was honored with the "Aspirants" special category award by IIT-Madras / NPTEL on 10th February 2025, celebrating consistent excellence in course activity, mentoring, and student performance. The "Aspirants" award recognizes chapters that demonstrate outstanding levels of student participation, mentoring effort, certification rates, and gold/elite achievements across multiple NPTEL course runs.



➤ PATENTS

Dr. .R Shreelekshmi got a patent on "Method For Determining Authenticity of Video Data and an Electronic Device Thereof" (Patent No: - 563229).



➤ BOOK RELEASE

The book titled “Fundamentals of Environmental Impact Assessment – Principles and Practices”, authored by Dr. Simi M. R., Prof. Ajay V., and Prof. Abhijith R. P. of Marian Engineering College, was officially released by the Honourable Chief Minister of Kerala, Shri. Pinarayi Vijayan, on 19th March 2025 at the Office of the Chief Minister, Kerala Legislative Assembly, Thiruvananthapuram. The first copy of the book was received by Rev. Fr. Dr. A. R. John, Manager of Marian Engineering College. The publication aims to provide a comprehensive overview of the principles and practices involved in environmental impact assessment and serves as a useful reference for students, researchers, and professionals in the field.



➤ MU-LEARN- AWARD



Dr. M. Manoj, Professor in the Department of Electronics and Communication Engineering and Head of the Department of Electronic Systems at Marian Engineering College, has been awarded the Kerala State Second Position in Mu-Learn. The award was presented by Sri. K. N. Balagopal, Honourable Finance Minister of Kerala, in

recognition of Dr. Manoj’s active involvement and contributions to the Mu-Learn initiative.

STUDENT ACHIEVEMENTS

➤ MR TRIVANDRUM TITLE

B. Rishikesh Varier (2022–2026 Batch, Electronics and Computer Science Department) has brought laurels to the institution by securing the prestigious title of Mr. Kerala, following his earlier achievement as Mr. Trivandrum



in December 2024. His consistent dedication, discipline, and exceptional performance in the field of fitness and bodybuilding have earned him statewide recognition.

➤ ACHIEVEMENT IN INNOVATE HACKATHON 2025



The S6R2 student team “Dev-stream”, comprising Arjun Jayakumar (Team Lead), Aditya S Nair, Theertha G S, Sona Susan Babu, and Rizwana R R, secured Second Prize with a cash award of ₹15,000 at the Innovate Hackathon held on January 18 and 19, 2025 at Sree Chitra Thirunal College of Engineering, Pappanamcode, Thiruvananthapuram. The event was hosted by InApp, in collaboration with IEEE Kerala Young Professionals. The team presented an Assistive Coding Learning Platform for Data Structures and Algorithms (DSA), powered by Large Language Models (LLM), aimed at enhancing the learning experience for students through intelligent guidance and interactive problem-solving.

➤ UI/UX BOOTCAMP AND MINI HACKATHON

A one-day UI/UX Bootcamp was conducted on 1st February 2025, featuring a series of insightful sessions by expert speakers, covering key principles, trends, and best practices in design..Johann

Jose Issac (S6 ECE) from Marian Engineering College, along with a team of four students from Mar Baselios College of Engineering and Technology, emerged as the First Prize Winners, securing a cash award of ₹3,000 for their outstanding performance in the hackathon.



competition held as part of "ASTRALUX", the Management Fest organized by KICMA, Thiruvananthapuram. The event attracted participants from various management institutes, and the team showcased excellent business acumen and quick thinking throughout the competition.



➤ RECOGNITION BY μLEARN FOUNDATION – TOP 100 CODERS

Govind S B of Marian Engineering College was felicitated by the Hon'ble Chief Minister of Kerala, Shri Pinarayi Vijayan in March 2025, for being selected among the Top 100 Coders by the μLearn Foundation. This recognition celebrates Govind's outstanding coding skills, perseverance, and passion for problem-solving in the digital domain.



➤ ACHIEVEMENT IN MANAGEMENT FEST – BEST MANAGER AWARD



Amal, a student of S2 MBA, brought pride to the institution by winning the "Best Manager" title at the prestigious Management Fest organized by Loyola College, Thiruvananthapuram. The event witnessed participation from leading management institutions, and Amal stood out through a series of challenging rounds that tested leadership, analytical thinking, and decision-making skills.

➤ ACHIEVEMENT AT ASTRALUX MANAGEMENT FEST

Irene Mariam Babu and Daniel R of S2 MBA secured the Second Prize in the Business Quiz

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING & DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

➤ MEMORANDUM OF UNDERSTANDING (MoU)

Department signed MOU with C-DAC on 27/02/2025



➤ INDUSTRIAL VISIT

- S4 Computer Science R1 batch students visited KINFRA Park, Techmaghi, Kochi, Kalamassery on 22-03-2025.



- S6R2 students went for IV from 15-02-2025 to 23-02-2025. They Visited Agra, Manali, Delhi and they visited two industries Network Bulls, & Trizent Technologies.



- The Industrial Visit during 22-02-2025 to 03-03-2025 for S6R1 was a perfect blend of education, adventure, and culture. From the innovative atmosphere of IIT Gandhinagar to the serene beauty of Manali and the cultural richness of Jaisalmer and Delhi, every destination offered unique learning opportunities.



➤ CSE ASSOCIATION ACTIVITY



- Talk on Data Analysis by Ms.Jibi Rose, Senior Enterprise Data Analyst Zafin on 15/02/2025.

- “TECHTALK” Awareness session on Technical Writing And Presentations by Dr. Philomina Simon (Assistant Professor, Department of CSE, University of Kerala) on 28/02/2025.



- Prof. Keerthi Krishnan along with students from CS and AH depts attended the "Digital India - Talk show" - Digital India State Consultation Workshop and Talk Show.



- 5 days Boot-camp on MEMORY AND MALWARE FORENSICS (24/03/2025 to 28/03/2025) An initiative of Ministry Electronics and Information Technology organized by C-DAC in association with CSE department MEC.



- AICTE sponsored (under AICTE-SANKALP scheme) One day workshop on High Performance Computing by Dr Rashmi S Nair,

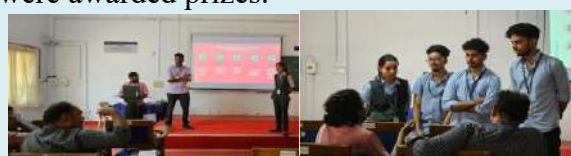
MIT university, Pune was conducted on 14.03.2025.



- The Department in association with Marian IEDC, organized a one-day hackathon named Quick Code - Mini Hackathon on March 11, 2025, from 9:00 AM to 4:00 PM. Thirty teams participated. The top ten projects were selected, and the evaluation of these projects took place on March 14, 2025, resulting in the selection of two prize winners.



- The Department in association with Marian IEDC, organized an idea fest named 'Ignite IDEATHON' on March 7, 2025. 16 teams participated in the event, and the top two teams were awarded prizes.



- Dr. Mercelin Francis & Ms. Anusha B Visited CDAC with a group of interested students in cyber security to attend the "Women in Cyber Security" session, on 20-03-2025.



FOSS Cell Activities

- Coding Competition for S4 students on 5-02-2025.



- One-day hands-on workshop on Machine Learning for second year students on 25-02-2025 handled by Ms. Swathy S, Research Assistant, ICFOSS.



- One-day hands-on workshop on Python for Machine Learning for second year students on 12-03-2025 handled by Ms. Fulwa Asheeb- Research Intern, ICFOSS & Mr. Gowtham G- Research Intern, ICFOSS.



μLEARN ACTIVITIES

- The GPT and Beyond workshop was an exclusive online took place on 5-02-2025 via Google Meet at 8 pm. The session was led by Ashwin A Murali, Ex-Chief Technical Officer - Inspira Marian IEDC, AIML Engineer - VitalView AI.



- The session From Idea to IPR was conducted on 19-02-2025 at the IEDC Hall, aiming to enlighten students about Intellectual Property Rights (IPR) and the importance of protecting

innovative ideas. The speaker of the event was, Nijin K Varghese, a final-year Computer Science student from the College of Engineering Karunagappally.



- The Make MyWeb bootcamp was a 7-day intensive web development training program organized by μ Learn MCE & Inspira IEDC and led by Aswin Asok, Co-Founder of MakeMyPass & The Hoomans Project from 01-03-2025 to 08-03-2025.



- Game development workshop was held at the IEDC Hall, led by Sabal Krishna S, Associate & Game-Development IG Lead at μ Learn Foundation on 18-03-2025.



- Beyond Pixel event was successfully conducted at the IEDC Hall on 14-03-2025.



- GrindFest event, held from 24-03-2025 to 26-03-2025 was a three-day event organized by μ Learn MCE.



- Dr. Sheeja Agustin volunteered as proctor to guide and oversee competing teams for the IEEE Xtreme 18.0 programming competition that hosted +19,000 participants.



- Dr. Anusha B has undergone the Innovation Ambassador Training "Foundation Level" conducted in online mode (30 contact hours) by MoE's Innovation Cell and AICTE during ICC calendar year 2024-2025 and she also undergone Innovation Ambassador Training "Advanced Level" conducted in online mode (30 contact hours) by MoE's Innovation Cell and AICTE during ICC calendar year 2024-2025.
- Ms. Reeja S L, Ms. Renetha J B & Ms. Rashmi M K successfully completed Artificial Intelligence Primer Certification on 19-03-2025 conducted by Infosys.



Ms. Reeja S L



Ms. Renetha J B



Ms. Rashmi MK

➤ FDP ATTENDED

- Dr. Sheeja Agustin & Ms. Keerthi Krishnan participated in SMART LEARN Series, online one day workshop on "Printed Intelligence-Exploring Technology, Application & Opportunities", organized by Additional Skill Acquisition Programme, Kerala in collaboration with i4 Technologies on 25-01-2025.
- Ms. Keerthi Krishnan has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Advanced Techniques in AI and Machine Learning at College Of Engineering, Cherthala from 06/01/2025 to 11/01/2025 and she also attended the "Digital India Awareness Workshop", organized by the Kerala State IT Mission, Department of Electronics & Information Technology, Govt. of Kerala in collaboration with MeitY, NeGD & ICT

Academy of Kerala, held at hotel Dimora, Thiruvananthapuram on 4-03-2025.

- Ms.Aswathy G S has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Generative Ai: Techniques, Tools, And Applications” at National Institute of Technology Delhi from 03/02/2025 to 08/02/2025 . She had also completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Strategic Approaches and Emerging Trends in Data Science” at Federal Institute Of Science And Technology (FISAT) from 10/02/2025 to 15/02/2025 and she also completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Artificial intelligence for Science and Engineering” at National Institute of Technology Nagaland from 17/02/2025 to 22/02/2025.
- Ms.Renetha J B, Ms.Sreekutty, Ms.Rashmy M K, Ms.Revathy B R ,Ms.Aswathy P V & Shakhi attended 3-Day Faculty Development Program organized by the ISTE Chapter of Marian Engineering College from 06-01-2025 to 8-01-2025 at Marian Engineering College, Kazhakootam, Trivandrum.

➤ PAPER PUBLICATIONS

- Dr. Shreelekshmi R. published a paper “Double salted HMAC signature with blockchain for faster and secure video integrity verification “in Journal of Supercomputing 81, 598 (2025). <https://doi.org/10.1007/s11227-025-06996-3>.
- Dr. Anusha B published a paper “Spatial attention-based hybrid VGG-SVM and VGG-RF frameworks for improved cotton leaf disease detection” in Neural Computing and Applications, Springer, Page: 1-21, (2025). DOI: <https://doi.org/10.1007/s00521-025-11012-z>.

➤ PROJECT EXHIBITION

- Conducted final year students’ Project Exhibition on 26/03/2025.



- Conducted Mini Project Exhibition held on 02-04-2025.



➤ STUDENT ACHIEVEMENTS

- MTIC Award



Aromal S Raj, Balaganesh V M, Manikandan S, and Savio Patrick were selected for the MTIC Award , best project from the CSE department, titled 'Predictive Analytics for Football Match Statistics’ under the guidance of Ms. Aswathy T K.

- Dhanatha & Siva Prakash of S2R1 won first prize and Abhay Parameswar , Akshay S & Niranjana won second prize for business plan presentation competition organized by Marian Business School as part of Arts Fest on 28-03-2025 under the guidance of Ms.Sreekutty S Vinod.



- Dhanatha & Siva Prakash of S2R1 won first prize and A K Amarjith, Ashley M Binu, Madhav J, Ardra Siva Prasad and Prakash P S of S6R1 won second prize for idea fest named 'Ignite IDEATHON' conducted by Department of

Computer Science and Engineering, in association with Marian IEDC on March 7, 2025 for their “Thattuchai”, & “SpeakEase”.



➤ FAREWELL

Department of CSE arranged a farewell on 25-03-2025. HOD addressed the gathering which was followed by fun activities by junior students. Lunch was arranged for S8 students.



2021-25 R1 Batch



2021-25 R2 Batch

➤ COMMUNITY SERVICE

On 24/03/2025 students from S6R1 visited Santhwanam Old Age Home, Puthenthope.



DEPARTMENT OF CIVIL ENGINEERING

➤ DEPARTMENT ASSOCIATION ACTIVITIES

- A technical session conducted on the topic "BIM enhanced management" on 24th January 2025 by Core Institute of Technology organized by AMETOS Student Chapter, Dept. Of Civil engineering, MEC



Session by Core Institute of Technology on BIM enhanced Construction Management on 24.1.25 organized by the Civil Engg Association-Ametos

- A NACTET Scholarship test conducted for S8 Civil students on 28th January 2025 organised by National Council for Technology and Training in association with AMETOS Student Chapter of Dept of Civil engineering.



- A technical session conducted on "Introduction to BIM" on 28th January 2025 for S6 Civil students organized by INTER CAD in association with AMETOS Student Chapter of Dept. Of Civil engineering



- S4 Civil students visited Soil Analytical Laboratory, Parottukonam on 4th February 2025 organized by IGS Student Chapter of Dept of Civil engineering, MEC



- A technical talk conducted on "Precast Construction" on 7th February 2025 by Sandra S S and Devika Praveena Saji of S8CE as a part of



their Industrial visit to Hyderabad in association with IEI and ASCE Student Chapters, Dept. Of Civil engineering. On the same day, a technical talk was conducted on "Subansiri Lower Hydroelectric Project" by Neo Dawn T and Abhilash C B of S6CE as a part of their Industrial visit to Assam in association with IGS Student Chapter, Dept. Of Civil engineering.

- A session on "Exploring the potentials of TEKLA STRUCTURES" conducted by Adarsh M S, Sr BIM Application Engineer on 18th February 2025 in association with AMETOS & IGS Student Chapters.



- An Industrial visit to Prefab construction site of Wootz Structures Pvt Ltd conducted for S8CE students on 17th February 2025 organised by AMETOS Student Chapter



- A technical session on "Career opportunities in Public sector after Civil Engineering" handled by Mr. Gokul Ramanan, Assistant Professor,



CIVILIANZ organized by AMETOS and MoU partner CIVILIANZ SKILLZ on 25th February 2025 for S8CE students

- Civil Engineering Association, AMETOS



organized a technical talk on "Permit drawing

and the execution of plans on-site” handled by Ms. Chithra R S, Managing Director, Linear Infrastructure Solutions & Testing (P) Ltd. on 4th March 2025 for S8CE students.

- MoU partner of the Civil Engineering Department BIMSLAB conducted an expert talk on the topic “A Focus To Finishing School” by CEO of BIMSLAB Sri Shiju Sasidharan, Technical Director, Sri Adarsh and General Manager Sri Mahesh to S8CE students on 10th March 2025.

- A technical talk on “Architectural Building Design and Interior design with Decoration” on 11th March 2025 by Ms. Rekha Rani (Chief interior design) and team, RIIEC, TVM.



- An International Symposium on “Sustainable Practices in Geotechnical Engineering” was organized by IGS Student Chapter, Department of Civil Engineering on 19th March 2025- 21st March 2025.



- IEI student Chapter of Department of Civil



Engineering organized “GEOBUILD 2025” was inaugurated by Dr. N. Unnikrishnan, Chairman, IGS Trivandrum Chapter on 20th March 2025

- An expert talk on the topic “Career Aspects in Civil Engineering” was conducted for S8 students by Alumni of Civil Department, Er. Roopak, Assistant Engineer, Manager,

Engineering Design and Research centre, L & T construction, Chennai on 24th March 2025 organised by AMETOS Student Chapter.



➤ MOU's

- An MoU has been signed by Department of Civil Engineering with Kerala Water Authority on 27th March 2025. MoU was signed by Chief Engineer of the Kerala Water Authority with Dr. Abdul Nizar M., Principal, MEC and Assistant Executive Engineers from Kerala Water Authority



➤ FACULTY ACHIEVEMENTS



- Prof. Greeshma T. awarded as enabler from Marian Engineering College, TVM in recognition of her limitless contributions, unwavering dedication as Mentor in ExamPrep for the year 2024
- Prof. Asha Davood Z. awarded as enabler from Marian Engineering College, TVM in recognition of her limitless contributions, unwavering dedication as Mentor in ExamPrep for the year 2024



- Dr. Rani V., HOD, Department of Civil Engineering published a paper on “Artificial Intelligence based coastal erosion rate prediction for Menamkulam beach” on *International conference TC 107 on tropical residual soils*, LBS Institute of science and technology for women, Poojappura.
- Dr. Rani V., HOD, Department of Civil Engineering published a paper on “Ai driven assessment of coastal soil erosion :A predictive frame work for veli ,Trivandrum” on *International journal of creative research thoughts* ,13(3),2025, ISSN 2320-2882
- Dr. Rani V., HOD, Department of Civil Engineering presented an interactive session on “A FOCUS TO SOIL INVESTIGATION-II” at Department of Civil Engineering, Bhilai Institute of Technology, Durg in association with IGS student chapter.
- Dr. Rani V., HOD, Department of Civil Engineering had patent on “Wireless Landslide detection device using sensors”, PATENT NO - 6400203
- Dr Narayanan S. has participated in the 5-day faculty development programme on “Engineering Entrepreneurship and IPR” organized by the Department of Electrical and Electronics Engineering in association with IEDC, IQAC, IIC from 30th Dec 2024 to 3rd January 2025
- Dr Narayanan S. has presented a paper on the topic “Innovations in Pre-Engineered Buildings: Shaping the Future of Construction” at 3-day technical seminar organised by IEI & STIST ON 27th February 2025.
- Dr Narayanan S. has presented a paper on the topic “Introduction to IPR, Importance of building a strong team” during FDP on Engineering Entrepreneurship and IPR on 6th January 2025
- Dr Narayanan S. has published a book for the Proceedings Of Second International Conference In Civil Engineering For A Sustainable Planet, <https://doi.org/10.21467/proceedings.179>
- Prof. Reshmy D S published a paper on “Predictive Modelling of Vehicular Tailpipe Emissions using Supervised Machine Learning Algorithms” on *Journal of Sustainable Transportation and Livability*, <https://doi.org/10.1080/29941849.2025.2497288>
- Prof. Greeshma T. awarded as enabler from Marian Engineering College, TVM in recognition of her limitless contributions, unwavering dedication as Mentor in ExamPrep for the year 2024
- Prof. Abhijith R. P. has published a book for the Proceedings Of Second International Conference In Civil Engineering For A Sustainable Planet, <https://doi.org/10.21467/proceedings.179>
- Prof. Abhijith R. P. has Published Utility patent on “AI based Fuzzy Algebraic framework for spatial pattern Formation in Mathematical Biology” published in Indian Patent Journal on 17-05-2024. Application No: 202441035956
- Prof. Abhijith R. P. has Published Utility patent on “AI Driven Sea Voltaic Super Boat for Sustainable fish Farming” published in Indian Patent Journal on 02-08-2024. Application No: 202441056208
- Prof. Abhijith R. P. published a paper on “A Study on Asphalt Concrete Mixes with Different Waste Materials as Modifiers in Pavement Application” on *International Journal of Advanced Research in Arts, Science, Engineering and Management*
- Prof. Abhijith R. P. published a paper on “Critical Review of Automated Traffic Signal Systems Leveraging IoT and Machine Learning” on ASCE Proceedings of *Second International Conference in Civil Engineering for a sustainable planet*(ICCESP 2024), ISBN 978-0-7844-8604-7
- Prof. Abhijith R. P. published a paper on “An Integrated Approach to Construction Waste Management: Critical Review” on *International Conference on Modelling and Simulation in Civil Engineering*
- Prof. Abhijith R P, published a paper titled "Traffic Optimization Using AI in the “Journal Nanotechnology Perceptions”(Scopus Q4

Journal)- ISSN 1660-6795, Vol.20 No 6, October 2024.

- Prof. Renju C M has published a book for the Proceedings Of Second International Conference In Civil Engineering For A Sustainable Planet, <https://doi.org/10.21467/proceedings.179>
- Prof. Renju C M published a paper on “A Study on Asphalt Concrete Mixes with Different Waste Materials as Modifiers in Pavement Application” on *International Journal of Advanced Research in Arts, Science, Engineering and Management*
- Prof. Renju C M published a paper on “Critical Review of Automated Traffic Signal Systems Leveraging IoT and Machine Learning” on ASCE Proceedings of *Second International Conference in Civil Engineering for a sustainable planet (ICCESP 2024)*, ISBN 978-0-7844-8604-7
- Prof. Renju C M published a paper on “Durability Properties of Ambient Cured Geopolymer Concrete with Copper Slag as Partial Replacement of Fine Aggregate” on *International Conference on Advances in Materials, Modeling, and Analysis for sustainable and Resilient Infrastructure*
- Prof Renju C M, published a paper titled "Mechanical and Durability Properties of Primary Blended Geopolymer Concrete Incorporating "Quarry Dust: A Sustainable Approach in the Journal Nanotechnology perceptions(Scopus Q4 Journal)- ISSN 1660-6795, Vol.20 No 6, October 2024.
- Prof. Renju C M published a paper on “An Integrated Approach to Construction Waste Management: Critical Review” on *International Conference on Modelling and Simulation in Civil Engineering*
- Prof. Sanobiya B S published a paper on “Utilization of waste water sludge in manufactured concrete blocks and tiles” on *International journal for Research and Analytical Reviews*.
- Prof. Sanobiya B S attended 3 day FDP on “Entrepreneurship & IPR” at Marian Engineering College, TVM, from 6th – 8th January 2025
- Prof. Aswathy Sasikumar published a paper on “Review on Load settlement behavior of shallow foundations on uncoated and bitumen coated geogrid reinforced soil bed” on *Second*

International Conference in Civil Engineering for a sustainable planet (ICCESP 2024)

- Prof. Aswathy Sasikumar published a paper on “Investigation of load-settlement behavior of shallow foundation on latex coated coir needle felt reinforced soil bed” on *International Journal for Research in Applied Science and Engineering Technology*, ISSN: 2321-9653
- Prof. Revathy V S coordinated and attended FDP on “Hands-on workshop on Rapid Prototyping” at Marian Engineering College, TVM on 15th February 2025
- Prof. Karuna P. coordinated and attended FDP on “Hands-on workshop on Rapid Prototyping” at Marian Engineering College, TVM on 15th February 2025
- Prof. Magi N S attended FDP on “Hands-on workshop on Rapid Prototyping” at Marian Engineering College, TVM on 15th February 2025
- Prof. Magi N S published a paper on “Bearing capacity Improvement of Soil using Geosynthetic Reinforced Granular Columns” on *Second International Conference in Civil Engineering for a sustainable planet (ICCESP 2024)*
- Prof. Magi N S attended FDP on “Green Horizons: Advanced Materials and Techniques for Sustainable Construction” organized by Department of Civil Engineering, in collaboration with ISTE Faculty Chapter, Vidya Academy of Science and Technology, Thrissur from 30th Dec 2024 to 3rd Jan 2025.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

➤ INDUSTRIAL VISIT TO KALLADA POWER PLANT



An industrial visit to Kallada Hydro-electric Power Plant, Thenmala was organized on

January 27 for the S4,S6 and S8 students of EEE Dept.

➤ EXPERT TALK



The Department of Electrical and Electronics Engineering organized an awareness session on “ELECTRICAL SAFETY MEASURES” on 04/03/2025, as part of National Safety Day, at EEE Seminar hall, MEC from 10:30 am to 12.10pm. Sri Rahul J.S, Assistant Electrical Inspector, Office of the Chief Electrical Inspector took the session. A total of 53 students from EEE department attended the session.

➤ PROJECT EXPO

The Department of Electrical and Electronics Engineering organized a Project Expo on 26th March 2025, showcasing the innovative works of S8 students along with the course projects of S4 and S6 students.



➤ REVIEWER

Dr. Vijayalekshmy S served as a reviewer for the IEEE International Conference on Computing and Communication (ICCC 2025), which will be organized by the College of Engineering Trivandrum from May 9 to May 11, 2025.

➤ WORKSHOP & FDP ATTENDED

- Dr Vijayalekshmy S attended an FDP on ‘NAAC Accreditation’ organized by Marian College of Art and Science, Marian Educity, Trivandrum on 15/2/2024.
- Dr Vijayalekshmy S attended a workshop on “Translational Workshop” organised by Kerala Language Institute on February 20 and 21.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING & ELECTRONICS AND COMPUTER ENGINEERING

➤ LOGO UNVEILING – IEEE SISCON 2025

As part of the lead-up to the IEEE Conference SISCON 2025, a Logo Unveiling Competition was conducted to engage the creative talents of the student community. The highlight of the event was the official unveiling of the winning logo, designed by Steve of S2 ECE, whose work stood out for its creativity, relevance, and visual appeal. Steve’s logo was selected as the official emblem of SISCON 2025



➤ DEPARTMENT ACTIVITIES

- The Department of Electronics launched the IETE Student Forum (ISF) on 20th February, 2025 at IEDC Hall. Dr. Sreelal Sreedharan Pillai, IETE Secretary, inaugurated the forum. Rev. Fr. Dr. A. R. John, Manager, and Dr. A. Samson graced the occasion. Kudos to Prof. Glastin Y. V and ISF student members for making the event a success!



- On 3rd April, 2025 the first ISF activity “The Journey Begins with the First Step”, was taken by Ms.Ananya Carolene G, Associate Software Engineer,H & R Block for the ISF members



- The Department of EC in collaboration with Networkz System organizes “VLSI Awareness Session for S6 students of EC and ES on 19-2-2025 at EC Seminar Hall.

➤ DEPARTMENT INDUSTRIAL VISITS

- The Department of Electronics organized an industry visit to the Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) on March 6, 2025. The visit focused on the biomedical area, providing students with valuable exposure to cutting-edge technology and research in the field.



- Industrial Visit by the students of S6 (2022-2026 Electronics and Computer Engineering Dept) 21st March to 2nd April 2025.



- Industrial Visit by the students of S6 (2022-2026 Electronics and Communication Engineering Dept) 21st March to 2nd April 2025.



- The Department of ECE and ECS had taken Oath against drug abuse on 25-3-25.



➤ MOU SIGNED

- MoU signing on 4-4-25, between Sree Chithira Thirunal Institute of Science & Technology and Marian Engineering College (Dept. Of Electronics & IEDC). The MoU will facilitate hand holding of innovative projects in the field of Medical Electronics from Marian.



➤ EXPERT TALK •

Exclusive expert talk on 14-3-25 on Emerging Trends in Electronics: *Next-Gen Electronics Powering Possibilities!* Dive into the latest advancements,

innovations, and career insights in the field of electronics with *Rony Alex Thomas, SoC Design Verification Engineer at Intel.





21-25 EC CLASS GROUP

➤ ELECTRONICS ASSOCIATION ACTIVITIES

• IOT Workshop

The S6 Students of the Electronics Association took the initiative to organize an engaging and informative IoT Workshop for their peers and juniors from the Electronics and Communication Engineering (ECE) and Electronics Systems (ES) departments on February 4, 2025. This workshop provided a valuable learning experience, equipping



participants with both fundamental and advanced IoT concepts through hands-on training. With 53 enthusiastic students in attendance, the session focused on practical applications of IoT, enabling students to gain real-world insights into its working and implementation.

➤ UP SKILLING & CAREER DEVELOPMENT WORKSHOP

Kompetenzen Technologies in association with Electronics association conducted a half day program for career development which helped to equip students with essential soft skills including communication, team work, time management, adaptability and career development strategies.

Nearly 50 students gained out of this session. A team of 3 trainers handled the session. It included interactive sessions with engaging activities such as storytelling, role play and team building exercises.



➤ FACULTY DEVELOPMENT PROGRAMME ON SOFTWARE DEFINED RADIO (SDR)

A full day session on SDR was facilitated by DEEBU U S, Dept of ECE, College of Engineering, Attingal. The session started by a welcome speech by Viswa Suman, Student Member and session commenced by 10am. 6 Staffs and 10 students attended the session which helped them to conduct experiments in Communication Lab.



➤ TECH EXPO 2025

On 20-03-2025, the Department of Electronics organized an exciting and informative Tech Expo at the Project Room of ECE block SM. It was inaugurated by the Principal, Dr. Abdul Nizar M and he congratulated the team and expressed that the event aimed to showcase the talents and innovations of our students, especially their final year project needs exposure. Thus it will be able to foster interest in technology, and provide a platform for students to exhibit their projects and research in various technological fields.

FIRST PRIZE: Integrated fire and smoke detection with automated vehicle safety system.

Team members: NourinA, Shenaz, Fathima, Aarsha Arther, Abhi Uday

Guide: Ramola Joy P

SECOND PRIZE: NPK Finder

Team Members: Vimal Victor, Savinkumar J, Abhiram A B, Vinu Joseph

Guide: Vinitha B Elza

Winners were awarded with a cash prize of Rs.1000/- and Rs.500/- respectively



➤ KBAIC (KERALA BLOCKCHAIN ACADEMY INNOVATION CLUB)

On 18th February 2025, the 2022-2026 batch students of the KBAIC club had given a session on BLOCKCHAIN Technology for the department juniors.

➤ AUXILLIUM CLUB (NISH) ACTIVITIES

- The Auxilium Club (NISH) of the Department of Electronics organized the Student Design Challenge 'Assist-o-matic', at IEDC Hall on 8-4-25. 15 teams of about 60 students of S2 from various branches came together to tackle the assistive theme provided by NISH. 10 teams were selected for final presentation. The theme for presentation and evaluation was given by NISH



Prize winners were :

First : A Vishnu Priyan, Anandhu A B, Rahul Lal, Mohammed Irfan (S2me)

Second : Anlin A Anupama Sreekumar Navami U Jasmin (S2ah)

Third : 1. Arafa N Blesto Basil Joy Najmal Khan Mahek Mariam Azad (S2es) & 2. Anisha Rachel Allen, A Harsha, Amaniya Anaswar S R (S2es)



The Auxilium Club of Department of Electronics organized an 'Expert Talk by Lead Project Managers of Assistive Technology- NISH, on 28-1-25. They had engaged students with live demos and interactive discussions. Prof. Subha P. S (In Charge of club) and team had arranged this Exceptional experience for the students of S4 ECE and ES.(2023-2027)



- Dr. A. Samson, Dr. Shanthi K. J., Subha P. S and



Vinitha B. Elza, made an official visit to the

National Institute of Speech and Hearing (NISH) today 11-2-25, to meet the Executive Director Dr. Suja K., to discuss the conference proceedings. The visit likely aimed to ensure a successful conference and establish a strong partnership between the Department of Electronics and NISH.

➤ FACULTY DEVELOPMENT PROGRAMS

- Ms. Simi M.S., Ms. Preetha S.L., Ms. Minnu Jayan C has participated in the 5 Day FDP on Exploring AI Paradigms: ML, DL and Research Perspectives, organised by Department of ECE, College of Engineering, Muttathara from 10th to 14th March, 2025.
- Dr. M. Manoj has participated in the AICTE Sponsored 5 day FDP in Innovation and Entrepreneurship from 24th to 28th March, 2025 at IIITK, Kottayam.
- All EC Department faculty, has participated in the 1 day FDP on Software Defined Radio (SDR) on 21st March, 2025 at Department of ECE, Marian Engineering College.

➤ PUBLICATIONS

- Ms. Simi M.S., has published the paper titled "EEG and Head Movement Controlled Wheel Chair" in IJRASET, Vol.13, Issue III, March 2025. Paper ID: IJRASET67860
- Ms. Simi M.S., has published the paper titled "Real Time Accident Detection and Alcohol Monitoring using a Smart Helmet" in IJERT, Vol.14, Issue 4, April 2025. Paper ID: IJERTV14IS040043
- Ms. Preetha S.L., has published the paper titled "Sewage Cleaning Robot" in IJRASET, Vol.13, Issue III, March 2025. Paper ID: IJRASET67891
- Ms. Preetha S.L., has published the paper titled "Anti-Drowning Inflatable system" in IJRASET, Vol.13, Issue III, March 2025. Paper ID: IJRASET67806
- Ms. Sreena V.G, has published "SI-LERT (Assistive Device for Hearing Impaired Drivers)" in IEEE Explore.
- Ms. Minnu Jayan C. has published "Wheelchair Mounted Robotic Arm for Drink Assist", in IJRASET, ISSN No: 2321-9653, DOI: 10.22214/IJRASET
- Ms. Vinitha B Elza, has presented the paper titled "Simulation of High-Efficiency All-Perovskite

Tandem Solar Cells: A Comparative Study of Lead-Free and Low-Lead Perovskite Materials" in the 8th International Conference on Nanoscience and Nanotechnology (ICONN-2025) organized by Department of Physics and Nanotechnology, SRMIST, India during March 24 - 26, 2025.

- Ms. Ann Mathew, has published a paper titled "Comparative Analysis of Optimization Algorithms for Data Routing in Lung Cancer Detection", in the Conference Proceedings of International Conference on Emerging Technologies in Engineering and Applied Sciences, ICETEAS-2025.
- Ms. Dhanya Mathew, has published a paper titled "Comparative Analysis of Optimization Algorithms for Data Routing in Breast Cancer Detection", in the Conference Proceedings of International Conference on Emerging Technologies in Engineering and Applied Sciences, ICETEAS-2025.

DEPARTMENT OF MECHANICAL ENGINEERING

➤ ASSOCIATION ACTIVITIES

• OIL & GAS TECHNICAL WORKSHOP

The Department in collaboration with MAGMA (Marian Association of Growing Mechanical Aspirants) and Capital Institute of Technical Studies, successfully conducted a Technical Workshop on Oil & Gas Engineering on 21st February. The workshop aimed to provide students with insights into pressure vessel inspection, heat exchangers, and ASME sections, which are crucial in the oil and gas industry. The technical sessions were led by: Speaker: Mr. Sherin Hussain – QC Engineer, Madina Group



➤ OFFICIAL LAUNCHING OF GO-KART



MAGMA in collaboration with IEDC, successfully organized the official launching event of the Go-Kart project on the 30th of January 2025 at Marian Engineering College. The event was graced by esteemed dignitaries and witnessed the participation of faculty members, students, and industry professionals. The Inaugural Address was given by Mr. Ramadurai Ram, Managing Director, Nissan Digital India. In his address, he highlighted the advancements in digital technologies in the automotive sector and the relevance of projects like Go-Kart in enhancing students' technical expertise.



➤ STUDENTS ACHIEVEMENTS

• INTERNSHIP

- Gowri Nanda A S and Samuel Maju of S8ME successfully completed their internship at NIT, Calicut from 04-12-2024 to 28-03-2025.

- Aby Thomas and Thomas Ilfy of S8ME successfully completed their internship at NIT, Calicut from 04-12-2024 to 28-03-2025.

➤ PAPER PRESENTATIONS

- Abhai S Kumar, Aswin A, Dinil Das, and Midhun M S (B.Tech Mechanical Engineering, 2021–2025 batch), along with Dr. Arun Kumar V (Associate Professor, Department of Mechanical Engineering), presented a research paper titled “Optimisation of Prosthesis with Different Physical Conditions” at the 1st International Conference on Recent Trends in Mechanical Engineering (ICRTME-2025), organized by the Department of Mechanical Engineering, College of Engineering Adoor, held from 28th to 30th April 2025.
- Feneesh Francis, Ayush A., Adarsh M., Nihith Johnson, and Viswam S. Kumar (B.Tech Mechanical Engineering, 2021–2025 batch), along with Prof. Rajaneesh R. Chandran (Assistant Professor, ME) and Dr. Sonia S. Raj (Assistant Professor, ME), presented a research paper titled “Design and Optimization of Screw Propellers for Modular Snake Robots in Underwater Rescue Applications” at the 1st International Conference on Recent Trends in Mechanical Engineering (ICRTME-2025), organized by the Department of Mechanical Engineering, College of Engineering Adoor, held from 28th to 30th April 2025.

➤ PUBLICATIONS

- Dr.Amjith .L .R, Assistant Professor, has published a paper entitled“Organ, types and contribution of emerging pollutants to environmental degradation and their remediation by physical and chemical techniques” Elsevier Environmental Research, Vol.257, pp. 119369,2024.

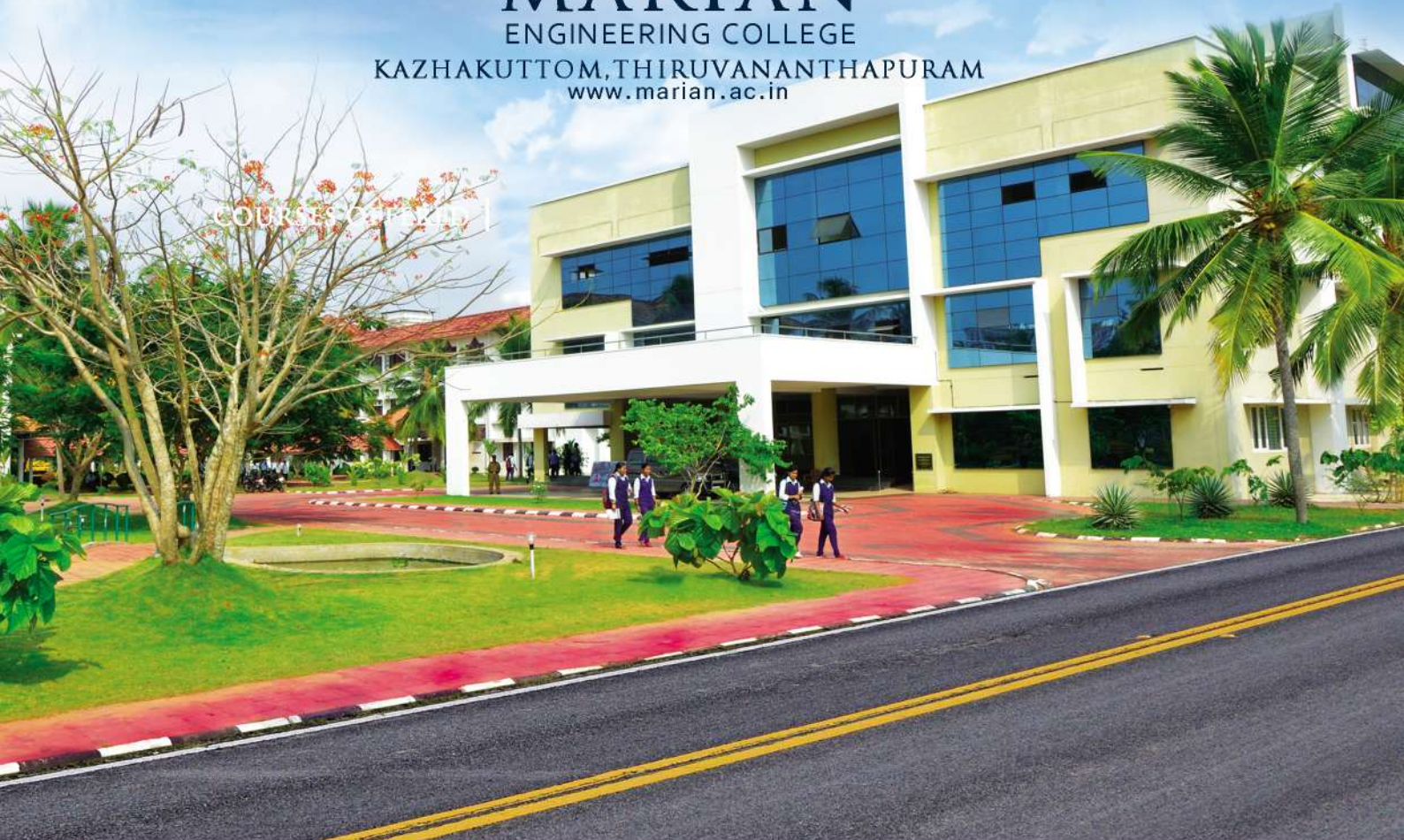
➤ FDP ATTENDED

- Dr. Sonia S Raj, attended a One-Week International Online Faculty Development Programme on CREATING CONDUCTIVE AND ENGAGING CLASSROOM ENVIRONMENT FOR LEARNING AND TEACHING held from 7th to 12th April 2025 organized by the faculty of English in the Department of Humanities & Sciences, CVR College of Engineering.



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