

December 31, 2024

Vol. 1 Issue 4

PINNACLES NEWSLETTER



Mount Zion
College Of Engineering & Technology

(Approved by AICTE, Affiliated to Anna University, Chennai & Accredited by NAAC with A+ Grade)

e-mail : info@mzcet.in | website : www.mzcet.in



TABLE OF CONTENTS

Vision & Mission	01
About Us	02
Spotlights	05
Department Activities	
Civil Engineering	09
Computer Science & Engineering	10
Electronics & Communication Engineering	13
Electrical and Electronics Engineering	15
Cell/Club/Sports activities	16



VISION

To be the preferred choice of students who aspire to become Engineers of the highest calibre.

MISSION

- Provide world-class physical, digital infrastructure and learning environment.
- Develop the competencies of students to make them job-ready and entrepreneurs.
- Facilitate mental, physical, emotional and spiritual development of students and ensure their holistic development.
- Preserve the environment through the implementation of eco-friendly and sustainable practices.
- Serve the community through skill development and other need-based services.
- Establish sustainable partnerships with industries and R&D laboratories for mutual benefit.



ABOUT US

The genesis of Mount Zion College of Engineering and Technology, Pudukkottai, was in 2001. The institution is approved by AICTE and affiliated with Anna University, Chennai. This institution is accredited by the National Assessment and Accreditation Council (NAAC) with an A+ grade. It offers seven undergraduate programs (Civil Engineering, Computer Science & Engineering, Information Technology, Artificial Intelligence and Data Science, Electrical & Electronics Engineering, Electronics & Communication Engineering, and Mechanical Engineering) and two postgraduate programs (Computer Science & Engineering, Communication Systems).



FOUNDER CHAIRMAN

SRI JAYABARATHAN CHELLIAH, M.A. , (U.S.A), B.ED.,



Sri Jayabarathan Chelliah was the Founder-Chairman of Mount Zion Christian Education Trust. Under his able leadership, the first school, which began in 1988, grew into many institutions. He held a Bachelor's Degree in Science from Alagappa University, Karaikudi, Tamil Nadu, and a Bachelor's Degree in Education from Calicut University, Kerala. He graduated with a Master's Degree in Educational Administration from the prestigious Loma Linda University, California, U.S.A., in June 1978. He was also an honored alumnus of Loma Linda University. Additionally, he received the Dr. Radhakrishnan (Nallasiriyar) Award from the Government of Tamil Nadu. The institutions he initiated will continue to strive to reach the lofty ideals he envisioned.

CHAIRPERSON

MRS. FLORENCE JAYABARATHAN, M.A., B.ED.,



Mrs. Florence Jayabarathan is the Chairperson of Mount Zion College of Engineering and Technology. Along with Sri. Jayabarathan Chelliah, she is one of the founders of the Mount Zion Institutions in Pudukkottai District. With over 50 years of dedicated teaching experience, she motivates both teachers and students to perform to their fullest potential.

DIRECTOR

PROF. JAYSON KEERTHY JAYABARATHAN, M.TECH.,PH.D.



Prof. Jayson Keerthy Jayabarathan, who holds a Bachelor's Degree in Computer Science & Engineering, a Master's Degree in Computer Science & Engineering, and a Ph.D. from Anna University, Chennai, along with his team of dedicated and qualified faculty, has been overseeing the college. He brings to the table over 20 years of experience in managing educational institutions. His primary objective is to provide students with the best technical information and the latest technology.

PRINCIPAL

DR. P. BALAMURUGAN M.E.,PH.D.



Dr. P. Balamurugan obtained his Bachelor's Degree in Electrical and Electronics Engineering as well as a Master's degree in Power Electronics and Drives from Bharathidasan University, Tiruchirappalli. He completed his PhD in the Development of Optimal Hybrid Energy Systems for Rural Areas at the National Institute of Technology, Calicut, Kerala. With 22 years of experience in teaching, research, and academic administration, he has authored more than 30 publications in reputable journals and conferences. Under his supervision, six research scholars have successfully completed their Ph.D.

SPOTLIGHTS

TOPPERS LUNCH



The examination cell of our college arranged a special lunch for students who performed exceptionally well in the recent university examinations on October 10, 2023. Students from various departments participated along with the department heads and enjoyed the food. They shared their experiences with fellow students. We have been organizing this event for the past 15 years to motivate the toppers of every class in our college. Our Chairman, director, and principal participate in this event

2nd IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, COMPUTING, AND RENEWABLE ENERGY SYSTEMS

The 2nd IEEE International Conference on Automation, Computing, and Renewable Energy Systems was organized at Mount Zion College of Engineering and Technology from December 11 to 13, 2023.

We were honoured to have guests Dr. Sadiq Batcha Rahim, Professor from MAHSA University, Malaysia, Dr. D. Nirmal, Professor from the Institute of Electrical and Electronics Engineers at Karunya Institute of Technology and Sciences, India, and Dr. Joy long Zong Chen, Professor from Dayeh University, Taiwan.

Their valuable insights enriched discussions during the event, where 265 research articles were presented.



SPOTLIGHTS

17th GRADUATION DAY CEREMONY



Mount Zion College of Engineering and Technology had a special day on December 14, 2023, celebrating the 17th Graduation Day for the Class of 2022. Dr. A. Arockiarajan, Professor from the Department of Applied Mechanics at the Indian Institute of Technology, Madras, graced the occasion as the chief guest and delivered the graduation day address. Special guests Mr. Robinson Devadhason, Mrs. Starry Robinson, and Mr. Rajeev Devadhason from Robinstar Tax Consultants, USA, brought more charm and motivation to the event. The ceremony highlighted the dedication, happiness, and achievements of the class of 2022.

FOUNDER'S DAY

Founder's Day was celebrated on December 18, 2023, marking the birth anniversary of our founder Chairman, Shri. Jayabarathan Chelliah is the inspiring leader of Mount Zion Education Institutions. His dedication and creative leadership made the institution a centre of excellence, inspiring many. We are grateful for his commitment to encouraging innovation and supporting talent. Sweets were distributed to all the staff and students.



SPOTLIGHTS

INNOVATION DAY

On the birth anniversary of our founder chairman at the Shri Jayabarathan Chelliah Innovation, Incubation, and Entrepreneurship Development Centre, we celebrated Innovation Day on December 18, 2023, to appreciate the innovators of our college. Dr. P. Karuppanan, Project Associate, StartupTN, Madurai, and Mr. S. Mahesh Kumar, Project Associate, StartupTN, Thanjavur, were the chief guests. Our management has sanctioned Rs 3,67,940 as seed money to encourage student teams to undertake innovative projects this academic year. About 28 students benefited from it. During the event, 8 faculty members who published research papers in reputed journals were honoured with a cash award of Rs. 62,500. This highlights the impressive innovation and teamwork displayed at the event.



SPOTLIGHTS

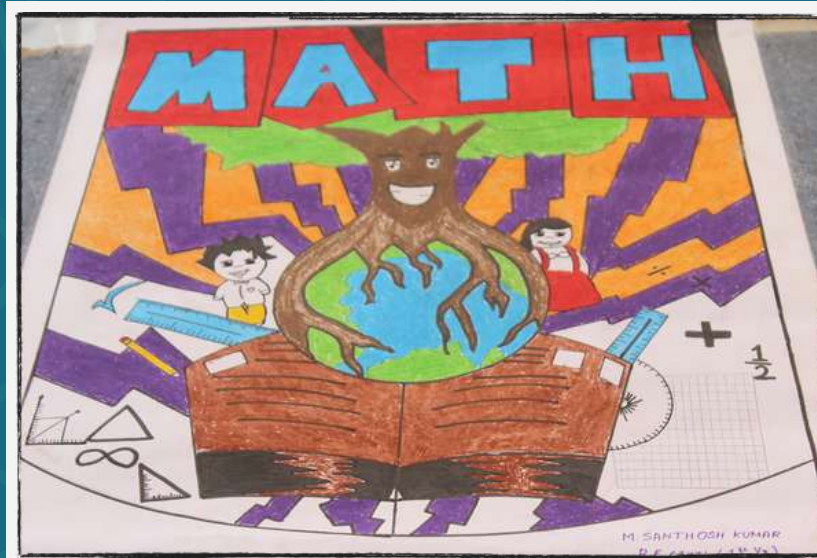
VIKSIT BHARAT@2047



Mount Zion College of Engineering and Technology conducted ViksitBharat@2047 on December 21, 2023. Around 50 department students participated and showcased their creativity and knowledge through Art, Poetry, Essay Writing, and a Quiz Competition. The competitions represented the vision of an advanced India by 2047, encouraging self-expression and curiosity among participants.

NATIONAL MATHEMATICAL DAY

Mount Zion College of Engineering and Technology was filled with excitement during the celebration of National Mathematics Day from December 21 to 22, 2023. The event encouraged students to participate in lively Sudoku and Quiz competitions. The celebration was enthusiastic and joyful, creating a vibrant atmosphere that sparked a passion for mathematics!



WORKSHOP ON EXPERIMENTAL PHYSICS



Dr. A. Amali Roselin, Assistant Professor of Physics, conducted a workshop on Experimental Physics on October 12, 2023, in the Physics Laboratory. The workshop covered essential concepts and how physics is applied in real-world civil engineering applications. Students actively participated and learned practically.

BOOT CAMP ON AUTO CAD 2D & 3D MODELING

The Advanced AutoCAD 2D & 3D Modeling BootCamp was conducted for civil engineering students from October 13 to 17, 2023. Ms. A. Anitha, Assistant Professor of the Civil Engineering Department, conducted the boot camp, covering advanced topics.



BOOTCAMP ON PYCODE ACCELERATOR



The Computer Science and Engineering Department hosted the Pycode Accelerator Bootcamp for II CSE students from October 9 to 11, 2023. Mrs. A. Sangeetha, Assistant Professor of CSE, coordinated this boot camp, challenging students to practice skills from identifying basic bugs to solving them.

WORKSHOP ON PYTHON TKINTER PROGRAMMING

The Computer Science and Engineering Department conducted a workshop on Tkinter on November 7, 2023. About 33 students from various engineering colleges participated in this workshop. Mrs. A. Sangeetha, Assistant Professor of CSE, handled the hands-on sessions, emphasizing the significance of debugging methods. The coding challenges were designed for everyone, including beginners, those in the middle, and advanced learners.



INDUSTRIAL VISIT TO ISRO

The Computer Science and Engineering Department organized an enriching industrial visit to ISRO Mahendragiri on November 17, 2023, providing a unique opportunity for approximately 100 students to delve into the realm of space exploration. This visit proved instrumental in broadening the horizons of budding computer engineers, offering them invaluable insights into ISRO's groundbreaking innovations and technological advancements. Through interactive sessions and firsthand experiences, students gained a deeper understanding of the intricate workings of cryogenic engines, while also witnessing India's remarkable capabilities in the field of space research. ISRO scientists captivated the audience with a detailed presentation, shedding light on the agency's remarkable achievements and paving the way for inspired minds to envision future contributions to the realm of space technology.



SEMINAR ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ESSENTIALS



The Computer Science and Engineering Department hosted a seminar on AI and Machine Learning essentials on November 17, 2023. Mr. J. Eliot Amal, Associate Director-Data Science, WNS Global Services Private Limited, Chennai, talked about how AI and ML are used in business, the challenges and opportunities associated, and ways to connect technology and business.

SEMINAR ON CAREER GUIDANCE AND LEARNING SKILLS

The Computer Science and Engineering Department arranged a Career Guidance and Learning Skills seminar on November 23, 2023. Mr. M. Swaminatha Prabhu, Senior Engineering Manager, Zoho Corp Private Limited, Karaikudi, graced the event as the chief guest and addressed the gathering. In his speech, he highlighted the importance of people skills and flexible learning methods in today's competitive environment.



MOTIVATIONAL PROGRAMME- I'M GREAT, I CAN, I WILL



The Department of Electronics and Communication Engineering organized a motivation program titled "I am Great, I Can, I Will" on October 17, 2023. Dr. P. Mani, Assistant Professor, Department of Electronics and Communication Engineering, Anna University, Trichy, delivered an excellent talk on fundamental strategies to achieve goals effectively. He discussed ways to achieve goals and maintain a positive attitude for success. Around 300 students from the department attended this informative session.

SCIENTIA - WORKSHOP ON EXPERIMENTAL PHYSICS

The Electronics and Communication Engineering Department organized a workshop, SCIENTIA, on October 19, 2023. The workshop, led by Dr. N. Sarala and Dr. A. Amali Roselin, Faculty of Physics, taught students important ideas using practical demonstrations about physics concepts applied in electronics and communication. The topics included resonance, polarization, total internal reflection, and the Doppler effect.



SEMINAR ON SPACECRAFT ENGINEERING AND ITS APPLICATION



The department's IEEE Student branch organized a one-day Spacecraft Engineering and Application seminar on November 03, 2023.

Dr. B. Karthikeyan, Scientist and Project Director, Indian Space Research Organization (ISRO), Bangalore, delivered a talk about spacecraft engineering.

WORKSHOP ON RECENT ADVANCEMENT IN OPTICAL COMMUNICATION

The Department of Electronics and Communication Engineering conducted a workshop on Recent Advancements in Optical Communication on November 8, 2023. About 60 students, including external participants from various institutions, attended the workshop. Dr. D. Sriram Kumar, Professor of ECE, National Institute of Technology, Trichy, honoured the occasion as the chief guest. He shared valuable insights into the progress of Optical Communication, covering areas like Visible Light Communication and Free Space Optics. Students attended the hands-on sessions conducted by the faculty.



VALUE ADDED COURSE ON PLC AND AUTOMATION



The Department of Electrical and Electronics Engineering conducted a three-day value-added PLC programming and automation course from October 18 to 20, 2023. The course, led by Mr. V. Rajarajan, PLC Design and Commissioning Engineer, IPCS Global Solutions Private Limited, Trichy, covered the basics of automation, different PLC trainers, ladder diagram principles, application instructions, and Zelio software for simple automation systems on the first day.

The second day included a practical session on PLC programming at the company, and on the third day, Dr. R. Muthukumar, Assistant Professor, EEE, discussed simulating digital logic, real-time projects on automatic lift control, and motor speed control using PLC.

POWER SEMINAR ON THE IMPACT OF ARTIFICIAL INTELLIGENCE ON ELECTRICAL ENGINEERING

The Department of Electrical and Electronics Engineering hosted an impactful seminar on AI's influence on electrical engineering on November 17, 2023. Dr. C.K. Babulal, Professor and Head of EEE, Thiagarajar College of Engineering, Madurai, handled the sessions, covering AI, fuzzy logic controllers, neural networks, and MATLAB in electrical engineering.

Around 100 students from our department and 23 from other colleges found the seminar beneficial.



ALUMNI MENTORSHIP PROGRAMME



An Alumni mentorship program on Opportunities After Engineering was conducted on October 17, 2023. Er. Kayalvizhi Murugan, an alumna of the 2015 batch currently working as a Senior System Engineer at Tata Consultancy Services, Chennai, highlighted the role of Electrical and Electronics Engineers in various industries and job opportunities.

WORLD MENTAL HEALTH DAY OBSERVATION

The Student Counseling Cell organized an event commemorating World Mental Health Day on October 31, 2023. Around 120 department students participated in Art, Poetry, Essay Writing, and Rangoli competitions. These creative contests aimed to bring attention to mental health awareness. The art theme was about expressing emotions, while poetry's theme, Breaking the Silence, encouraged poems that explored mental health challenges. The Essay Writing focused on eliminating stigmas and promoting support for mental health.



IIC-ATL LINKAGE INITIATIVE



On October 12, 2023, the Institution's Innovation Council arranged a mentoring session on 3D Printing at the Government Girls Higher Secondary School in Alangudi. The goal was to teach students about 3D printing, encouraging creativity and problem-solving abilities. The school students were taught printing basics, shown practical uses, and involved in hands-on activities, sparking an interest in STEM subjects and careers.

FACULTY DEVELOPMENT PROGRAMME ON PSYCHOLOGICAL WELL-BEING OF TEACHERS

The Internal Quality Assurance Cell organized a Faculty Development Program titled Psychological Well-Being of Teachers on November 5, 2023. Dr. M. Sureshkumar, Assistant Professor, Department of Psychology, American College, Madurai, was the resource person. He shared helpful advice with about 100 faculty members, discussing ways to handle stress that affects teachers. The talk covered mental states, behaviour, emotions, and thinking, and he also introduced relaxation techniques through breathing exercises.

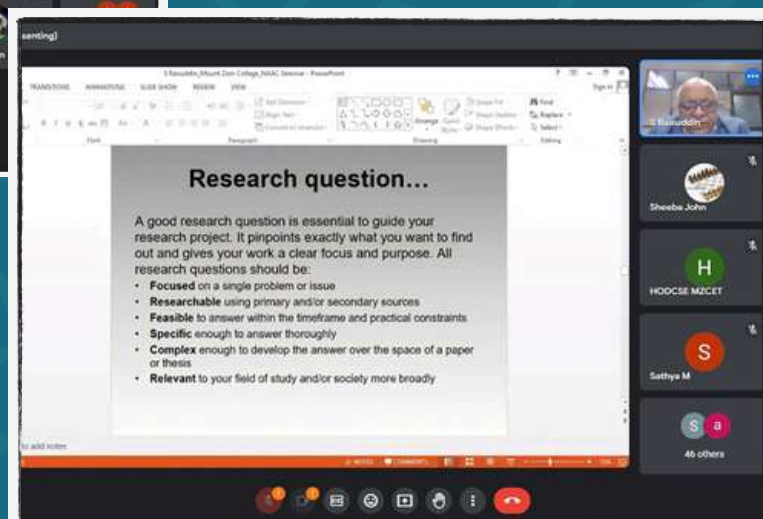


CELL/CLUB/SOCIAL ACTIVITIES

NAAC SPONSORED 2-DAYS ONLINE SEMINAR ON IQAC AND ITS ROLE IN QUALITY ASSURANCE IN HIGHER EDUCATION: CHALLENGES AND OPPORTUNITIES

The Internal Quality Assurance Cell (IQAC) of Mount Zion College of Engineering and Technology, Pudukkottai, hosted a two-day online seminar on "IQAC and its Role in Quality Assurance in Higher Education: Challenges and Opportunities" in virtual mode, sponsored by NAAC. The seminar, held on November 8th and 9th, 2023, brought together renowned experts, educators, and administrators to explore and discuss various aspects of Internal Quality Assurance Cells in higher education institutions. 56 faculty members from various institutions in Tamil Nadu and other states participated.

The seminar provided valuable insights and strategies to enhance the quality of higher education through IQACs and compliance with accreditation standards. Participants gained a deep understanding of quality assurance challenges and opportunities.



FACULTY DEVELOPMENT PROGRAMME ON COURSE OUTCOME AND ATTAINMENT



The Internal Quality Assurance Cell organized a Faculty Development Program titled Course Outcome and Attainment on November 5, 2023. Mr. S. Sivakumar, OBE Expert, served as the resource person and explained the significance of having clear course goals, using different ways to measure success, and how these are all connected to achieving excellent outcomes.

BLOOD DONATION CAMP

The Rotaract Club of Mount Zion, the Rotary Club of Pudukkottai Central, and the Pudukkottai Government Medical College blood bank organized a blood donation camp at Mount Zion College of Engineering and Technology on November 5, 2023. 84 students donated blood during the camp.

Dr. Saravanan, Blood Bank, Pudukkottai Government Medical College, explained the significance of blood donation.



VIGILANCE AWARENESS PROGRAMME



On November 2, 2023, the Vigilance Awareness Programme was organized, focusing on honesty, good behaviour, and staying alert. The Principal Mount Zion College of Engineering and Technology led the event, featuring Mr. Swamy Doss, Divisional Secretary, National Insurance Company, Pudukkottai and Rtn. Sivaji, Regional Manager, National Insurance Company, Pudukkottai, also spoke about the importance of being vigilant and acting ethically.

DENGUE AWARENESS PROGRAMME

The Youth Red Cross Club of Mount Zion College of Engineering and Technology took a proactive step by hosting the Dengue Awareness Programme on December 1, 2023, across Thathamuthuppatti, Arankirampatti, and Pudukkottai villages. Students shared leaflets containing important information about Dengue fever, helping villagers understand more about it and learn ways to prevent it.



WORLD AIDS DAY - ESSAY WRITING AND DRAWING COMPETITION



On December 1, 2023, to mark World AIDS Day, the Red Ribbon Club conducted Essay Writing and Drawing Competitions in Government Girls Higher Secondary School, P. Azhakapuri. 31 students from the school participated and showcased their writing and drawing skills. Also, a session was conducted to raise awareness about AIDS among the school students.

UNNAT BHARAT ABHIYAN MEETING

Mount Zion College of Engineering and Technology regularly engaged in the UNNAT BHARAT ABHIYAN mission. Our volunteers participated in the Grama Sabha Meeting conducted in the adopted villages, namely Arasampatti and Ilanjavur. Discussions encompassed ongoing development projects, general fund expenditures, healthcare, education facilities, and readiness for the North East Monsoon. This collaborative effort exemplifies the college's commitment to holistic development and active contribution to the community.





Empowering Careers, Shaping the Futures Mount Zion Leads The Way!



CONTACT US



Lena Vilakku, Pilivalam P.O, Thirumayam Tk.
Pudukkottai Dt - 622507, Tamil Nadu, INDIA



+91 8973510000



info@mzcet.in



www.mzcet.in