

23rd COLLEGE DAY REPORT 2023-24

INTRODUCTION

Honourable Chairperson, Respected Director, Distinguished Academic Coordinator, Respected Chief Guest, Dean, HoDs, Faculty Members, Staff Members, parents, members of the press and media, and students, a very good evening to one and all.

It is a great honour and joy to bring out the beautiful and astonishing memories that we have cherished as a unit in the academic, co-curricular, and extra-curricular activities for the academic year 2023-24. Here I stand in front of you with much delight to highlight the achievements and to present the Annual Report of our eminence of exemplary institution, Mount Zion College of Engineering and Technology.

Mount Zion College of Engineering and Technology was established in 2001 by Mr Jayabarathan Chelliah, founder-chairman of Mount Zion Christian Education Trust. This institution has been approved by the All India Council for Technical Education (AICTE), New Delhi, and is affiliated to Anna University, Chennai. The institution has been accredited with the **National Assessment and Accreditation Council (NAAC) with an A+ grade (3.35 CGPA)**, and it is valid for 5 years. The institution has completed 23 years of laudable service to the welfare of society. We are happy that 19 batches of students completed the B.E. and B.Tech degree courses and 12 batches of M.E. came out successfully with flying colours from this prestigious institution. With the blessings of our Founder Chairman and the guidance and support of Chairperson Madam, Director, Academic Coordinator, Faculty members, Parents, Well Wishers, Staff, and Students, we would continue to maintain a good reputation in this region.

1. ACADEMIC COURSES

- Mount Zion College of Engineering and Technology is offering a diverse range of programmes to our students. With **7 undergraduate, 2 postgraduate, and 1 PhD research programmes** in various disciplines, the college is providing our students with a wide range of options to choose from them.
- The institution is going to offer new course under **Master of Business Administration** from the forthcoming academic year.

2. MAJOR ACHIEVEMENTS

2.1 MSME

Ministry of Micro, Small & Medium Enterprises (MSME), Govt.of India, recognized Mount Zion College of Engineering and Technology as a Business Incubator bearing with HI reference number "HIBITN003194" on 03.01.2024.

2.2 Participation in National and State-level Competitions

CSI InApp International Student Project Awards 2023

B.Senthilraja, P.Vanchinathan, M. Saravanan and N.Vasudevan from Final year CSE shortlisted second round of 12th CSI InApp International Student Project Awards 2023 for the project titled Dex - The Docker

Nation Level Hackfest – 23

B.Senthil Raja, P.Vachinathan and M.Saravanan, final-year computer science students, have won second prize and a cash prize of Rs.75,000/- in National Level HACKFEST-23, Bangalore Institute of Technology.

Smart India Hackathon Contest

49 teams from various departments nominated and 64 ideas submitted in the National Level Smart India Hackathon 2023 organized by the Government of India. Two teams are shortlisted from our college to the grand finale of the prestigious SIH 2023.

Naan Mudhalvan Project Competition

K.Muruganantham, and M.Sri Mahalingam and K. Sakthivel, final-year Electrical and Electronics Engineering students, participated in the Naan Mudhalvan Project Competition 2023 organized by the Government of Tamil Nadu and won the cash prize of **Rs. 25,000** in for the project titled Panel booster- photothon

Niral Thiruvizha

Our students from various departments participated in the Naan Mudhalvan Niral Thiruvizha 2023 organized by the Government of Tamil Nadu. Two teams from our college shortlisted and awarded with **Rs. 10,000** each

- **AL. Manikandan, S.Baskar Krishna, A. Antony Jeffery and S.Gururaj** of final-year, Department of Computer Science and Engineering for the project entitled " Skill-sprint Edugamming Leveling up Inclusive Education".
- **M.Muthupandi, K.Rama Moorthy, M. Vignesh, P. Kanagaraj** of final-year, Department of Mechanical Engineering for the project entitled "Design and Fabrication of Low Cost Dust Collectors for Stone Crushers".

Dark Patterns Buster Hackathon

One team **C.Shiranjan II year CSE, J. Mohamed Rayan II year CSE, M.Navin Raj II year CSE, D.Jagatha II year CSE, M.Ragavi II year CSE, B.Senthil Raja** Final year CSE have been shortlisted for grand finale of Dark Patterns Buster Hackathon 2023 February 17 & 18 at IIT-BHU Varanasi

Yukti Innovation Challenges 2023

Proud moment for MZCET as our faculty members actively participated in knowledge sharing sessions for IIC institutions, and our talented IIC student members engaged in a one-to-one Mentoring & Pitching Session for the Yukti Innovation Challenges 2023 held on January 24, 2024, at Francis Xavier Engineering College, Tirunelveli. Out of 441 teams participated in first round, 135 teams are shortlisted for Regional meet. Among 135 teams, 5 teams participated from our college.

Out of the 5 teams, the 2 teams N. Nithish Kumar from EEE for the project Automated food maker and B.Senthil Raja, R. Nandhagopal from CSE for the project DEX – smart luggage carrier were moved to the next level Yukti Innovation challenge 2023 final pitching.

ISRO Outreach programmes – (IIRS)

Our organization is now Network institute of IIRS Outreach network. Under this network, 12 students from II year CSE and 11 students from II year ECE were completed the courses on Overview of Geo-computation and Geo-Web services at no cost.

2.3 Funding from TNSCST

3 TNSCST student projects worth Rs. 22,500 were received under the guidance of the Research and Development Cell.

2.4 Unnat Bharat Abhiyan

A grant of **Rs. 2 lakhs** fund was sanctioned for two projects.

Automatic IV Cannula monitoring system proposed by our faculty **Mrs.V.Bharathi**, Assistant Professor from Department of Electronics and Communication Engineering.

Another project **Empowering rural women (health, wealth and nutrition) community with solar powered refrigeration : Sustainable Solutions for food and Medicine Presentation and Development** proposed by our faculty **Mr.R. Thirumavalavan**, HOD of Mechanical Department.

One more project **Smart Agriculture Land Security And Crop Protection System** proposed by our faculty **Mrs.V.Bharathi**, Assistant Professor from Department of Electronics and Communication Engineering was approved & waiting for fund.

As a part of UBA activities, Rooftop rainwater harvesting systems were implemented in the five adopted villages under the **Unnat Bharat Abhiyan 2.0 Programme**, Government of India.

2.5 Graduation Day

The 17th graduation day was held on December 14, 2023, on our college premises. **Dr. A. Arockiarajan**, a Professor from the Department of Applied Mechanics at the Indian Institute of Technology, Madras, was the guest. Special guests, **Mr. Robinson Devadhasson**, **Mrs. Starr Robinson**, and **Mr. Rajeev Devadhasson** from Star Tax Consultants, USA, brought more charm and motivation to the event.

2.6 Academic Toppers

125 students scored above 7 GPA in Apr/May 2023 and Nov/Dec 2023 Anna University Examinations. Among them the following 25 students scored above 9 GPA.

S.No	NAME OF THE STUDENT	DEPARTMENT	YEAR	GPA
Apr/May 2023				
1.	DIFNA A	B.E. ECE	III	9.3
2.	PRABHA S	B.E. CSE	II	9.21
3.	SAKTHI PRIYA M	B.E. CSE	II	9.04
4.	THIRISHA P	B.E. CSE	II	9.04
Nov/Dec 2023				
1.	GOKULA INIYA A	B.E. CSE	II	9.48

S.No	NAME OF THE STUDENT	DEPARTMENT	YEAR	GPA
2.	PRIYADHARSHAN S	B.E. EEE	III	9.46
3.	SIVASAKTHI S	B.E. CSE	IV	9.29
4.	SHARAFATH ZULFIAH P	B.E. CSE	IV	9.29
5.	SREE PONNI K	B.E. CSE	IV	9.29
6.	ANUSHYABHARATHI S	B.E. CSE	I	9.23
7.	NAGAJOTHI N	B.Tech - IT	I	9.18
8.	JAGATHA D	B.E. CSE	II	9.17
9.	REEMA JASMINE R	B.E. ECE	II	9.16
10.	VINITHA L	B.E. EEE	IV	9.14
11.	AAHELA PARVEEN T	B.Tech - IT	I	9.14
12.	YUVANSANKAR M	B.E. MECH	II	9.12
13.	VALLIAMMAI RM	B.E. CIVIL	IV	9.11
14.	PRABHA S	B.E. CSE	III	9.09
15.	GAYATHRI B	B.E. CSE	II	9.04
16.	PRIYADHARSHINI S	B.E. EEE	III	9.02
17.	ABIRAMI B	B.E. CIVIL	IV	9
18.	SEMILA S	B.E. CSE	IV	9
19.	JUMANA HASSIN S	B.E. ECE	IV	9
20.	SELVAMEENAL R	B.E. ECE	IV	9
21.	DIFNA A	B.E. ECE	IV	9

2.7 Toppers Lunch

An initiative to motivate the rank holders of every class, we host toppers lunch after every university examination.

2.8 Spotlight lecture

To fulfil the dreams of our visionary founder chairman and management of our institutions, faculty members present innovative ideas in spot-light lectures for 10 minutes. So far, **225 spot-light lectures** on recent trends in Engineering have been presented by various faculty members from all departments.

2.9. NPTEL Courses

Govt. of India granted permission to have a SWAYAM NPTEL local chapter to us. SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy. Our college hosted the NPTEL local chapter in the month of Jul-August 2018. In our college 20 students and faculties enrolled various courses through the SWAYAM Local Chapter and five students got certification.

- 24 faculty members and 7 students completed NPTEL course during October 2023
- 59 faculty members and 88 students registered NPTEL course during April 2024

3. PLACEMENT

Placed Students Details

245 offers received from 20 reputed companies through campus interviews. The average annual salary is over **3.2 lakh this year**.

Students placed in Delphi-TVS Technologies, Chennai, Reddot rebar Services, Zoho corporation, Chennai, Aquasub Engineering, Coimbatore, Sakthi Auto components limited, Coimbatore, GK Power Expertise Pvt Ltd, Chennai, Chella Software Private Limited, Madurai, On eyes Info-tech Solutions, Chennai, Rinex Technologies Pvt Ltd, Bangalore, Vintorix Pvt Ltd. Chennai, Conserve Solutions, Trichy, Pyzaql, Bangalore, Sanmina, Chennai, Aruna alloy Steel Pvt. Ltd, Madurai, Karyoun Innovations Pvt. Ltd, Chennai, Proto-wiz Private Limited, Coimbatore.

Placement Training Summary

Providing technical training to students is an essential aspect of preparing them for their future careers. The training and placement cell conducted Aptitude and Soft skills training for all branches of students. Around 1200 students were trained and benefited.

Apart from that we fine-tuned their programming skills through Skillrack, a portal exclusively designed for this purpose and being followed by leading engineering colleges throughout the state.

4. FOUNDER'S DAY

The birthday of our honourable Founder Chairman was observed as **Innovation Day** on December 18, 2023. On this day, various awards and **cash prizes worth around 4 lakhs** were distributed to students who had contributed to **developing innovative projects** and faculty members for their excellence in **research publications** and their valuable contribution towards NAAC accreditation.

5. IEEE CONFERENCE

The 2nd **IEEE International Conference** on Automation, Computing, and Renewable Systems 2022 (IEEE ICACRS-2024) was conducted on December 11-13, 2023 in our college premises. **Dr. Sadiq Batcha Rahim**, Professor, MAHSA University, Malaysia, **Dr. D. Nirmal**, Professor, Institute of Electrical and Electronics Engineers at Karunya Institute of Technology and Sciences, India, and **Dr. Joy Iong Zong Chen**, Professor, Dayeh University, Taiwan delivered the keynote address. During the event, 265 research articles from 11 countries were presented.

6. BIRTHDAY CELEBRATIONS OF THE CHAIRPERSON AND DIRECTOR

It was an honour to gather to celebrate the birthdays of the most eminent personalities of our institution; we celebrated the birthdays of our Chairperson, Director in a grand manner.

7. GUEST VISITED

Our institution had the opportunity to host programs through academicians, industrialists, and motivational speakers from reputed organizations. Such programs can provide a valuable platform for students and faculty members to interact with experts from various fields, and learn about the latest developments in their respective areas of study.

During this academic year around **30 academicians, 40 industrialists** visited and interacted with our faculty members and students our institution.

7.1 Academicians

1. **Dr. Sadiq Batcha Rahim**, Professor from MAHSA University, Malaysia.
2. **Dr. D. Nirmal**, Professor from the Institute of Electrical and Electronics Engineers at Karunya Institute of Technology and Sciences, India.
3. **Dr. Joy Iong Zong Chen**, Professor from Dayeh University, Taiwan.
4. **Dr.P. Mani**, Assistant Professor in the Physics Department, Anna University, Trichy.
5. **Dr.V.Saravanan**, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai.

6. **Dr. A. Arockiarajan, M.E., Ph.D.**, Professor from the Department of Applied Mechanics, Indian Institute of Technology, Madras.
7. **Dr.D.Sriram Kumar**, Professor, National Institute of Technology, Trichy.
8. **Dr. S.S. Karthikeyan**, Associate Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Trichy.
9. **Dr. B. Gopi**, Dean/ Electronic Sciences, Muthayammal Engineering College, Rasipuram.
10. **Dr.K.S.Yamuna**, Assistant Professor, Dept. of Electrical and Electronics Engineering, Sona College of Technology, Salem.
11. **Dr .V.Nirmalarani**, Assistant Professor, Sathyabama University.
12. **Mr.P.Pradeep Castro**, Assistant Professor, Dept. of Mech Engineering, Chennai Institute of Technology.
13. **Dr.V.Suvekbala**, Chief Executive Officer of EDII, Anna University, Trichy.
14. **Mr.Mukunthan Elangovan**, Incubation Scientist, EDII, Anna University, Trichy.
15. **Mr.Mettu Gowtham Reddy**, Research Scholar of ECE, National Institute of Technology, Trichy.
16. **Dr.C.K.Babulal**, Professor & Head, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai.
17. **Mr. Vinoth Malaikani**, Chief Executive Officer In-charge, Incubation Scientist, EDII - Anna Business Incubation Research Foundation, Anna University, Trichy.
18. **Dr.R.Saravana kumar**, Assistant Professor, Sethu Institute of Technology, Pudukkottai.
19. **Dr.V.Saravanan**, Professor, Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai.
20. **Dr.M.Suresh Kumar**, Assistant Professor, Department of Psychology, The American College, Madurai.
21. **Dr.V.Badrinath**, Dean-Corporate Relations and Extension Activities, SASTIRA University Prof. S. Raisuddin, Ph.D., Dean, School of Chemical & Life Sciences, Jamia Hamdard (Deemed University), New Delhi .

22. **Dr.Abdul Rahim Sadiq Batcha**, Assoc. Prof./Coordinator for Postgraduate Studies, Faculty of Engineering, Built Environment & IT, MAHSA University, Malaysia.
23. **Prashant R. Nair**, Head & Vice-Chairman, Internal Quality Assurance Cell (IQAC), Amrita Vishwa Vidyapeetham, Coimbatore.
24. **Dr.KR. Manjula**, Associate Prof, Dept of CSE, SASTRA University
25. **Dr.M.Sahithullah** M.E., Ph.D. IQAC Co-ordinator, Er. Perumal Manimekalai College of Engineering, Hosur.
26. **Dr.P.Thanapal**, Associate Professor, School of Information Technology and Engineering, Vellore Institute of Technology, Vellore.
27. **Dr.S.Suba**, Professor, Department of Women's Studies, Bharathidasan University, Tiruchirappalli.
28. **Dr.M.Ayisha Millath**, Associate Professor at Alagappa Institute of Management, Alagappa University, Karaikudi.
29. **Mr.M.Martin**, Bajaj Engineering Skill Training Centre, SASTRA University, Thanjavur.
30. **Dr.Mohamed Imran**, Associate Professor, Vellore Institute of Technology, Chennai.

7.2 VISITORS FROM INDUSTRY

1. **Dr. J. Daniel Chellappa**, Nuclear Scientist, Chennai.
2. **Mr. Rushyanthan Raman**, Manager, Cloud Campus, Terralogic Inc, Bangalore.
3. **Dr. Karthikeyan**, Scientist and Project Director at ISRO Bangalore
4. **Mr. Rushyanthan Raman**, Manager, Cloud Campus , Terralogic Inc, Bangalore.
5. **Ms. Jothilakshmi**, Collins Aerospace Company, Bangalore.
6. **Mr.I.Premcharles**, Director, Allinov Research and Development Pvt Ltd, UK.
7. **Dr. S. Thiyagarajan**, Managing Director of Gate Win Trichy.
8. **Er. S. Mubarak Ansari**, MD, Smart Builders and Smart Hardwares.
9. **Mr. G. Veeraprathimanan**, Data Engineer from Algonomy, Bangalore.
10. **Mr.Ragavendra Swamy**, Senior Technical ICT Academy.
11. **Mr. E. Rajendra Kannan**, M.A., M.L.,

12. **Mrs. P. Pandiselvi**, B.A., B.L.,
13. **Mr. M K Thamarai Manian**, Solution Architect, Corporate Trainer, and Freelancer.
14. **Mr.N.Saravanan**, Software Technologist at Philips Healthcare India Pvt. Ltd.,
Bangalore.
15. **Mr.K.Ganapandithan**, International Welding Engineer, Ribo Industries, Trichy.
16. **Dr. Kesavan Markkandan** Ph.D., CEO & Co-founder of ONEOMICS PRIVATE LIMITED,
Trichy.
17. **Jeba, Lazurus, Aliza, Vijayalakshmi, Catherine, Tara, Raja & Bhavatharini** -
Talent Ease.
18. **Ms.Sivasakthi & Ms.Saranya** ,C Cube Technologies, Karaikudi, & **Mr.Gokulraj
sundar & Ms.Hajithabanu sultan**, Jadayu Entreprises, Thanjavur.
19. **Mr.J.Karnan**, Assistant General Manager, TVS Srichakara Ltd, Madurai.
20. **Mr.Mahendran**, Kalyani Proprietor, Karaikudi.
21. **Er.Kayalvizhi Murugan**, Senior System Engineer, Mean stack web developer, Tata
Consultancy Services, Chennai.
22. **Mr. V. Rajarajan**, a seasoned PLC Design and Commissioning Engineer from IPCS
Global Solutions Pvt. Ltd., Trichy.
23. **Mr. Swamy Doss**, Divisional Secretary, NIC, Pudukkottai Y&Rtn. Sivaji, Regional
Manager, NIC, Pudukkottai.
24. **Mr.R.Sivakumar**, OBE Expert.
25. **Mr.J.Eliot amol**, Associate Director-Data Science, WNS Global Services, Chennai.
26. **Mr. M. Swaminatha Prabhu**, ZOHO Corp, Karaikudi.
27. **Mr.Aldrin Bennet**, Senior Security Consultant, Saff Breach, Canada.
28. **Mr. Sakthi** Auto Components Limited, Coimbatore.
29. **Dr. P. Karuppanan**, Project Associate at StartupTN, Madurai & **Mr. S. Mahesh Kumar**,
Project Associate at StartupTN, Thanjavur.
30. **Mr. R. Deepak Manikandan**, Chief Engineer, EESB, Klang, Malaysia.
31. **Dr. G. Govindaraj**, Surgical Oncologist, Harshamitra Super Speciality Cancer Centre &
Research Institute, Trichy.
32. **Mr. Emmanuel Robin Joseph**, Director of Maxelerator Foundation, Madurai.
33. **Lt. Col. SK Mishra**, Commanding Officer, 9 (TN) Bn NCC, Karaikudi.
34. **Dr.P.S. Balamurugan**, M.E, Ph.D, Managing Director, Greenway Infitech, Coimbatore

35. **Mrs. Srividhya Chandrasekaran**, Scrum Master, Cognizant Technology Solutions, Ontario, Canada.

36. **Mr.M.Saravanan**, Production Manager, TECHNIX Elevator, Bangalore.

37. **M. Radhakrishnan**, Sub Inspector of Police.

38. **Mr. S. Veera Pandian**, Sub Inspector of Police, Thirumayam, Pudukkottai.

39. **Mrs. J Shalini Proprieter**, Best Knowledge Academy, Madurai.

7.3 MOTIVATIONAL SPEAKERS

1. **Mrs. Kavitha Jawahar**, a renowned Tamil Orator, Writer, and Motivational Speaker.
2. **Mrs. Leema Thomas**, consultant psychologist from rejoice counseling Center, Karaikudi.
3. **Dr. P. Mani**, Assistant Professor/Physics ,Anna University, Trichy.

8. 24-HOUR WORKSHOP

Our departments conducted **Six** 24 Hour workshops during this academic year. These workshops provided a great learning opportunity for the students and allowed them to enhance their skills and knowledge in emerging fields. Around 320 Students participated and benefited.

- **PYTHON GUI Programming with TKINTER** for first-year students of Computer Science and Engineering on 28.06.2023
- **Assembling of IC engine** for second and third-year students of Mechanical Engineering on 06.07.2023
- **Aurduino and Raspberry PI** for second-year students of Electrical and Electronics Engineering on 13.02.2024
- **PCB Designing and fabrication process** for first-year students of Electrical and Electronics Engineering on 21.03.2024
- **Design of electronic circuits and PCB using circuit wizard workshop** for first-year students of Electronics and Communication Engineering on 25.03.2024
- **Internet of Things And Its Application workshop** for first-year students of Electronics and Communication Engineering on 11.04.2024

9. IN-PLANT TRAINING & INTERNSHIP

Our institution arranged in-plant training, internships and industrial visit for all students in various branches to gain practical exposure in their field of study. Such training, internships, and Industrial visit are crucial for students as they enable them to apply the theoretical concepts they learn in the classroom to real-world situations.

Around 324 students were undergone in-plant training and Internship. 350 students have visited 05 industries and gained practical knowledge in their domain.

10. VALUE-ADDED COURSES

Our Institution is offering value-added courses on emerging areas to our students. Such courses can play a vital role in helping students, develop the skills and knowledge required to succeed in their chosen fields.

The following Value-added courses were offered during this year

- **Autocad 2D & 3D Modelling** was conducted on October 13-17, 2023 for the second year students of Civil Engineering
- **PLC Programming and Automation** was conducted on October 18-20, 2023 for the second year students of Electrical and Electronics Engineering
- **React Frame Work** was conducted on February 07-09, 2024 for the third year students of Computer Science and Engineering
- **Java Programming** was conducted on February 19-21, 2024 for the third year students of Electronics and Communication Engineering
- **3D Max** was conducted on February 26-28, 2024, for the final year students of Civil Engineering
- **Python Vision Craft** Bootcamp was conducted on March 06-08, 2024, for the second year students of Computer Science and Engineering
- **Building Modelling Using 3D Revit Architecture** was conducted on March 25-27, 2024 for the second year students of Civil Engineering
- **Sensor application using Arduino and Raspberry Pi** was conducted on February 26-28, 2024, for the third year of Electrical and Electronics Engineering students
- **Interactive Web Design** was conducted on April 10-12, 2024 for the second year students of Computer Science and Engineering

- **Electronic Circuit Design Using Proteus, Circuit Wizard And PSIM** was conducted on April 15-17, 2024 for the first year students of Electronics and Communication Engineering

11. DEPARTMENT ACTIVITIES

11.1. Civil Engineering

11 events were conducted by the Department of Civil Engineering during the academic year 2023-24 to enhance students' technical and leadership skills. 4 workshops, and 7 training programmes were conducted this year.

11.2. Computer Science and Engineering

9 events (4 workshops, 1 webinar, and 4 training programmes) were conducted by the Department of Computer Science and Engineering during the academic year 2023-24. The department made significant efforts to enhance the technical and leadership skills of our students through various events such as workshops, webinars, and training programs.

11.3. Electronics and Communication Engineering

The Department of Electronics and Communication Engineering has been supporting its students to participate in various events including 1 IEEE International Conference, 6 webinars, 2 workshops and 3 training programmes.

11.4. Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering conducted 3 webinars, 4 workshops and 4 training programmes to upgrade the proactive skills of students on par with the industries.

11.5. Mechanical Engineering

The Department of Mechanical Engineering organized 8 programmes during the academic year 2023-24 to enhance detail-oriented mechanical design experience in design layout and special machinery. Out of 8 events, 1 workshop, 3 webinars and 3 training programmes were included.

12. ACTIVITIES OF CELLS

Our institution organises various co-curricular and extension activities through cells, societies and clubs to improve the overall educational experience of the students.

12.1. Research and Development Cell

The research development cell motivates our faculty members to update modern technologies by conducting research talks and spotlight webinars. Also, they are motivated to publish technical articles in both national and international journals and receive guidance on how to apply for funding from various reputed funding agencies such as DST, CSIR, AICTE, etc.

- Around **8 faculty members** proved themselves by publishing papers in reputed journals.
- A **seminar on Demystifying Intellectual Property Rights** was organised in our institution on March 8, 2024.
- The **IEEE International Conference** on Automation, Computing, and Renewable Systems 2023 (IEEE ICACRS-2023) was conducted on December 11-13, 2023 in our college premises
- 5th International Conference On Recent Trends In Engineering And Technology was conducted on April 25-26, 2024 in our college premises

12.2. Counseling Cell

The counseling cell of our institution provides guidance to cope with academic and social pressures, helps students overcome personal and psychological problems, creates awareness about mental health, and motivates students towards the attainment of their set goals. The counseling cell regularly conducts motivational programmes to groom students to achieve their goals.

- A programme on **Mentoring session** was conducted on July 21, 2023 through the counseling cell by **Mr.J.Jerin Kumar**, Vice Principal, Mount Zion College of Nursing, Pudukkottai
- A programme on **Mentoring the mentor** was conducted on March 03, 2024 through the counseling cell

12.3. Women's Grievance Redressal Cell and Anti ragging Cell

The Women's Grievance Redressal Cell organized 4 programmes this year.

- Awareness programme on cancer, Stress management conducted on February 08, 2024.
- Poster presentation and slogan writing contest on anti-ragging conducted on March 26, 2024
- Motivational Talk on gender and life skills conducted on February 29, 2024
- Seminar on gender equality and Women Empowerment conducted on March 08, 2024

12.4. Alumni Cell

08 alumni mentorship programmes and an alumni meet in collaboration with various departments were conducted to foster good rapport between the college and alumni. Our alumni are supporting in arranging interactions, industrial visits and in-plant trainings.

12.5. Staff Development Cell (SDC)

The faculty members from the various department participated in various events across India for their technological improvements and updates. The Staff Development Cell organized 2 short-term courses in this academic year.

12.6. Internal Quality Assurance Cell

IQAC was conceived as a mechanism to build and ensure a quality culture at the institutional level. The IQAC is responsible for planning, guiding, and maintaining the quality assurance and quality enhancement activities of the institution. To cope with this, IQAC organized 3 FDPs and 3 seminars for the welfare of the faculty members.

- A four-day workshop on **Modern Teaching Tools** was organised from June 6–9, 2023 for the betterment of our faculty members in teaching and research perspectives.
- **FDP on Train A The Trainers** was conducted on March 22, 2024
- **Session On Setting Quality Question Paper** was conducted on March 07, 2023
- **Workshop on Psychological well-being for Teachers** was conducted on November 5, 2023

- **Seminar on Course outcomes and attainment** was conducted on November 5, 2023
- **NAAC sponsored National Level Seminar on IQAC and Its Role In Quantity Assurance In Higher Education** was conducted on November 8 - November 9, 2023 through the Internal Quality Assurance Cell (IQAC) by
- **New Employee Onboarding Workshop** was conducted on February 16, 2024

12.7. Innovation, Incubation and Entrepreneurship Development Centre

The Innovation, Incubation, and Entrepreneurship Development Centre organized 16 programmes to encourage the students' business and start-up ideas. More than 20 innovative ideas from 80 students were submitted to the Innovation, Incubation, and Entrepreneurship Development Centre and developed into a product.

8 faculties completed Innovation Ambassador Training Foundation Level & 5 faculties completed Innovation Ambassador Training Advanced Level.

The following seminars/workshops were conducted

- Intellectual Property and Public Policy issues on June 22, 2023
- Converting Innovation into a Start-up on July 04, 2023
- Workshop on Intellectual Property Rights and IP Management for Start-ups on July 07, 2023
- Workshop on Building Institute level Yutki National Innovation Repository on August 14, 2023
- Process of Innovation Development was conducted on August 18, 2023
- Funding Opportunities and Challenges for Start Up on August 22, 2023
- How to Plan for Start-up and Legal and Ethical Steps on August 28, 2023
- Workshop on Design Thinking and Reverse Engineering on November 29, 2023
- IIC-ATL Linkage initiative on October 12, 2023
- Funding Up Opportunities And Challenges For Start UP on February 09, 2024.
- Workshop On Design Thinking, Critical Thinking And Innovation Design on February 19, 2024
- Awareness Session On Innovation Voucher Programme on February 21, 2024
- Problem Solving And Ideation Workshop on February 21, 2024
- Innovation Through Recent Technology-Seminar on March 12, 2024
- Process Of Innovation And Critical Thinking on April 02, 2024
- Converting Innovation In To Startup on April 03, 2024
- Innovative Electrical Engineering Business Ideas for Tech Start-ups on July 12, 2023

- Accelerators/Incubation - Opportunities for Early Stage Entrepreneurs on July 14, 2023
- Building Institute Level Yutki -National Innovation Repository on February 02, 2024

12.8. Career Guidance Cell

The Career Guidance Cell provides guidance to students and various study materials through our Centre for Competitive Examinations. Additionally **seminar on cracking the Civil Service Exam For Engineering** Students was conducted on April 23, 2024

12.9. Centre for Excellence and Robotics Lab

The Centre for Excellence and Robotics Lab organized a one day workshop on NodeMCU.

A one day programme on Workshop on NodeMCU was conducted on May 08,2023

12.10. Student Chapter

Student chapters are formed to facilitate learning, professional development, and networking opportunities in a particular engineering domain. Student chapters of professional bodies ICT Academy, CSI, IEEE, ISTE, and IE(I) are established and are actively functioning in our institution. Students enroll in different chapters as members and participate in the activities of those chapters. This includes organising technical talks, workshops, seminars, and conferences and participating in design competitions, research projects, and community outreach programs.

12.11. Extension Activities

Our institution encourages students to participate in community services for their overall development. We conduct extension and outreach activities through National Cadets Corps (NCC), National Service Scheme (NSS), Youth Red Cross (YRC), and Red Ribbon Club (RRC). Our institution organises blood donation camps, tree plantations, environmental awareness programs, medical awareness camps, free health check-ups and computer education for the nearby community. Our institution is actively involved in UBA, and adopted 5 nearby villages, and carries out outreach activities.

14. STAFF ACHIEVEMENTS

14.1. Faculty Publications

The faculty members published their research findings in various national and international journals. Research articles published in SCI/Scopus-indexed high-impact factor journals were highly appreciated by the management and rewarded with **a cash prize worth Rs. 10,000 per finding** on Innovation Day, which was held on December 18, 2023. Around **8 faculty members received cash awards worth Rs. 62,500** for their paper publications in reputed journals.

14. STUDENTS ACHIEVEMENTS

Our students participated and won awards and cash prizes in the national and state-level competitions this year.

14.1 Department of Civil Engineering

- **S.Prasanna**, a final-year Civil Engineering student, won the first prize in State level Paper Presentation on March 23, 2024, conducted at Kalaingar Karunanidhi Government Arts College for Women (autonomous), Pudukkottai.

14.2 Department of Computer Science and Engineering

Co-curricular:

- **M.Ragavi, K.Lakshaya**, second-year Computer Science and Engineering students, won the third Prize for Paper Presentation in Thiagarajar College of engineering, Madurai. on February 02, 2024
- **S.R.Balaganesan, M.Prasanth, K.Naveen**, third-year Computer Science and Engineering student students, won second prize in Bunty HXNT in PSG College of Technology, Coimbatore on February 24, 2024
- **M.Kanakalakshmi, J.Riswana Barvin, S.Aswathi and M.Suganya**, second-year Computer Science and Engineering student students, won prize in State level Paper Presentation, on February 17, 2024, Thiagarajar College of engineering, Madurai.

Extra-curricular:

- **B.Gayathri**, a second-year Computer Science and Engineering student, won third the prize and received cash of Rs. 2000 in Speech Competition on September 15, 2023, conducted at Kalaingar Karunanidhi Government Arts College for Women (autonomous), Pudukkottai.
- **S.Mithra**, a second-year Computer Science and Engineering student, won third prize in State level Essay competition on September 15, 2023, conducted at Nadar Saraswathi engineering and Technology, Theni.
- **S. Anushya bharathi**, a first-year Computer Science and Engineering student, won first the prize in MZCET & Vigilance Awareness Essay competition on October 13, 2023, conducted at MZCET.
- **B.Gayathri**, a second-year Computer Science and Engineering student, won the second prize in on November 04, 2023, conducted at Sri Bharathi Arts and Science for Women, Pudukkottai.
- **B.Gayathri**, a second-year Computer Science and Engineering student, won the first prize in Elocution competition conducted on January 11, 2023, conducted at Anna University, Trichy.
- **S. Anushya bharathi**, second-year Electronics and Communication Engineering student, won the first prize in speech competition conducted on Tamil Heritage and Cultural Propaganda Program, October 10, 2023 at J.J. Arts and Science College, Pudukkottai
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14.3 Department of Electronics and Communication Engineering

Co-curricular:

- **S.Jumana Hassin, S.Reena Vigneshwari**, final-year Electronics and Communication Engineering students, won the first prize in MSME Competition-Electricity generation using Foot-steps -A sustainable solution conducted on August 26, 2023 at Srikrishna Engineering College, Coimbatore
- **R.Guhan raj**, third-year Electronics and Communication Engineering students, won the first Prize in National level Paper Presentation-PIEZZO ELECTRIC TILE conducted on September 22, 2023 at Chettinad College Of Engineering And Technology, Karur.
- **S. Abdul Haiyum and P.Anbalagan**, final-year Electronics and Communication Engineering students, presented in National level Paper Conference on February

10, 2024 conducted at Sri Bharathi Engineering College for Women, Pudukkottai.

- **S.Reena vigneshwari, R.Selva Meenal and S.Jumana Hassin**, final-year Electronics and Communication Engineering students, presented in National level Paper Conference on February 10, 2024 conducted at Sri Bharathi Engineering College for Women, Pudukkottai.
- **S.Vijayan, R.Vikram and S.Aravinth**, final-year Electronics and Communication Engineering students, presented in National level Paper Conference on February 10, 2024 conducted at Sri Bharathi Engineering College for Women, Pudukkottai.
- **S.Reena vigneshwari, R.Selva Meenal, S.Jumana Hassin**, final-year Electronics and Communication Engineering students, participated in National IEEE Conference in Innovation and Challenge conducted at Panimalar College of engineering on February 10, 2024,
- **S. Abdul Haiyum**, final-year Electronics and Communication Engineering students, participated in Anveshna-Project Competition in Anveshna-Project Competition Karnataka conducted during February 02, 2024 to Mar 29, 2024.
- **D.Ebi saran and R.Raj Kumar**, final-year Electronics and Communication Engineering students, won the second prize in Quiz Competition on March 23, 2024, conducted at Karpaga Vinayaka Institute of Management, Pudukkottai.

Extra-curricular:

- **P.L. Kalki**, first-year Electronics and Communication Engineering student, won first prize of Rs. 10,000 for Speech competition on September 25, 2023, conducted at Shanmuganathan College of Engineering, Pudukkottai.

14.4 Department of Electrical and Electronics Engineering

Co-curricular:

- **K.Muruganantham, and M.Sri Mahalingam and K. Sakthivel**, final-year Electrical and Electronics Engineering students, won the prize in State level Panel booster- photothon(Naan mudhalvan scheme competition - photovoltaic) on August 28, 2023, conducted at Naan mudhalvan scheme competition.
- **M.Sri Mahalingam** final-year Electrical and Electronics Engineering student won first place in circuit debugging and technical quiz conducted on March 16, 2024 at Manakula Vinayagar Institute of Technology

- **Ayyappan**, a final-year Electrical and Electronics Engineering student won the prize in on February 22, 2024, conducted at Karpagam Academy of Higher Education, Coimbatore.
- **N.Nithish Kumar, K.Muruganantham, M.Srimahalingam, V.Raveendran** final-year Electrical and Electronics Engineering students selected in YUKTI - Innovation Challenge on February 25, 2024, conducted at MIC & All India Council For Technical Education.
- **S.Priyadharshan, S.Meenatchi Sundaram**, third-year Electrical and Electronics Engineering students, won first prize for paper presentation on March 23, 2024, conducted at Chendhuran College of Engineering and Technology
- **S.Priyadharshini, K.Usha**, third-year Electrical and Electronics Engineering students, won second prize for paper presentation on March 23, 2024, conducted at Chendhuran College of Engineering and Technology
- **R.K.Kannan, A.Bhuvan Akash and Palanivel Raj**, second-year Electrical and Electronics Engineering students, participated in Virtual Reality, Meta Verse on March 27, 2024 conducted at Mother Terasa College of Engineering and Technology

14.5 Department of Mechanical Engineering

Co-curricular:

- **S.Suguna R.Rajapandian and M.Krishnamoorthy**, a third-year Mechanical Engineering student, participated in National level Paper Presentation on September 15, 2023, conducted at SRM UNIVERSITY, Madurai.
- **Karuppiah**, a third-year Mechanical Engineering student, won the Second prize in Quiz on March 15, 2024, conducted at Shanmuganathan College of Engineering and Technology.
- **Pradeep**, a third-year Mechanical Engineering student, won the first prize in Quiz on March 15, 2024, conducted at Shanmuganathan College of Engineering and Technology.
- **Mohammed saleem**, a third-year Mechanical Engineering student, won the Third prize in Paper Presentation on March 15, 2024, conducted at Shanmuganathan College of Engineering and Technology.
- **Karthikeyan**, a third-year Mechanical Engineering student, Won the First prize in CAAD Modeing on March 10, 2024, conducted at NIT-Trichy
- **Karthikeyan**, a third-year Mechanical Engineering student, Won the Third prize in CAAD Modeing on March 22, 2024, conducted at Alagappa Chettiar Government College of Engineering and Technology

- **A.Kishore and A.M.Akash**, third-year Mechanical Engineering students, won the first prize in Paper Craft on March 22, 2024, conducted at Alagappa Chettiar Government College of Engineering and Technology
- **S.Suguna**, a Final-year Mechanical Engineering student, participated in National level Paper Presentation on October 11, 2023 in Kings College of Engineering and Technology.

15. SPORTS

Mount Zion College of Engineering and Technology had a successful year in sports in 2023 - 24. The year was filled with many accomplishments and milestones, and our team has achieved some remarkable victories.

- In the Anna University Zone 16 games, Our College secured first position in Football (Men).
- In the Anna University Zone 16 games, Our College secured second position in hockey.
- The Badminton men's team won second place in the Men's Singles category.
- In the Anna University Zone 16 games, Our College secured second position in Table Tennis (Men).
- In Anna University zone-16 Athletics Men's category **M.Raguram**, third year EEE won second place in Decathlon.
- In Anna University zone-16 Athletics Men's category **M. Mithun kumar**, third year CSE won second place in Hammer Throw.
- In Anna University zone-16 Athletics Men's category **Jeevan**, first year Civil won second place in Pool wald.
- In Anna University zone-16 Athletics Women's category **P.Janani**, first year ECE won first place in High Jump.
- In Anna University zone-16 Athletics Women's category **P.Varsha Sri**, second year CSE won second place in Hammer Throw.
- In Anna University zone-16 Athletics Women's category **K.Usha**, third year EEE won third place in Short put.

We conducted a sports day on 6.5.2023, Mr.V.Ajith Kumar, Pro Kabadi Player, Jaipur Pink Panthers was the chief guest.

In this academic year, we celebrated Christmas, Pongal, Independence Day, Republic Day, Teacher's Day, Engineer's Day and Abdul Kalam Birth Day with greater enthusiasm.

16. CONCLUDING REMARKS

It's great to hear that Mount Zion College of Engineering and Technology has achieved remarkable accomplishments throughout the year, and it's certainly a testament to the hard work and dedication of the management, staff, and students. It's always impressive when a team comes together to achieve a common goal, and it sounds like everyone at the college is committed to ensuring the welfare of the students.

Continuing to focus on the students and community is a great way to ensure that the college remains successful and continues to serve its purpose. It's important to keep up the momentum and strive for even greater accomplishments in the future. By staying dedicated and committed to the college's mission, everyone involved can help ensure that Mount Zion College of Engineering and Technology remains a valuable resource for its students and community for years to come.