



MOUNT ZION

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Affiliated to Anna University & Accredited by NAAC with A+ Grade)
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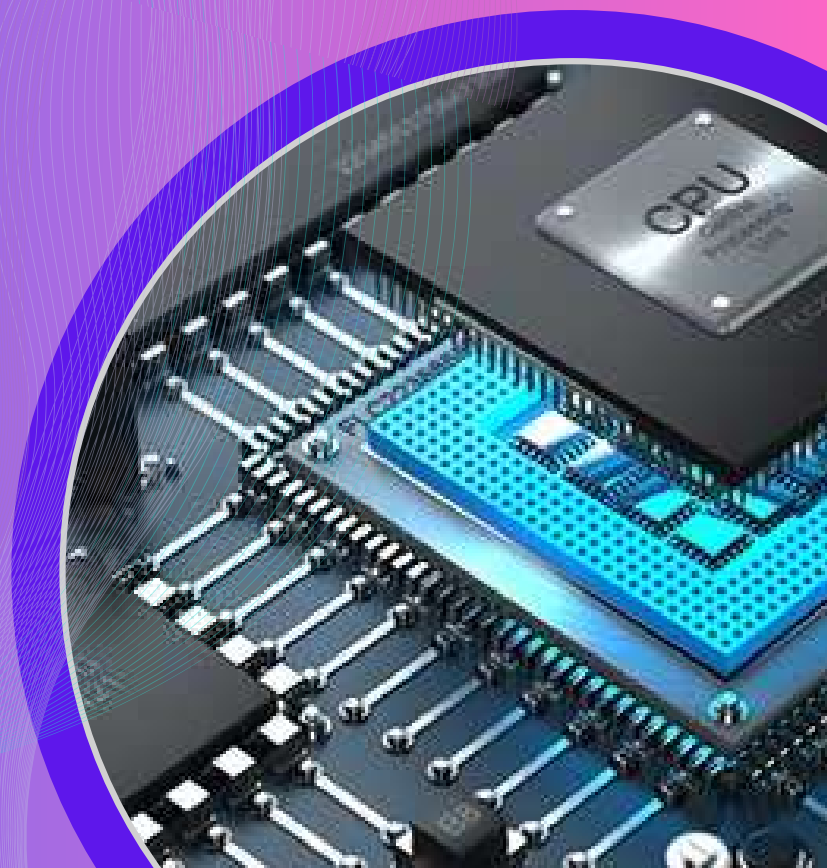
The Department of Electronics and Communication Engineering

Presents

CIRCUIT CHRONICLE- I

December 2023

Vol. 3, Issue 1



Vision

Department Vision and Mission To be a centre of excellence in the field of Electronics and Communication Engineering by offering technical education of the highest quality, continuous professional development, research and commitment with social responsibility and ethical values.

Mission

- To achieve excellence in Electronics and Communication Engineering by combining modern teaching methods with cutting-edge research.
- To equip students with adequate core and interdisciplinary knowledge, problem solving skills to satisfy the changing expectations of industry and society.
- To create a learning environment that fosters strong communication skills, teamwork, leadership, and entrepreneurial abilities.
- To facilitate collaboration and industry to enhance career opportunities through practical learning

FOUNDER CHAIRMAN

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



Sri Jayabarathan Chelliah was the FounderChairman 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.

MESSAGE FROM THE DIRECTOR



The dedication and creativity of the ECE department shine through in this exceptional newsletter. It beautifully showcases the department's achievements, innovative projects, and academic milestones, reflecting our institution's vision of fostering excellence, creativity, and societal impact.

I applaud the students and faculty for their commitment to addressing pertinent issues and creating a platform that informs and inspires. This newsletter stands as a testament to your hard work and determination to make meaningful contributions to the academic and broader community.

Congratulations to the ECE team on this remarkable publication. Wishing you continued success and looking forward to witnessing more of your accomplishments in the future.

**DR. JAYSON KEERTHY JAYABARATHAN,
DIRECTOR, MZCET**

MESSAGE FROM THE ACADEMIC COORDINATOR



It is with great pride and joy that I contribute to this edition of the ECE department newsletter. This publication stands as a reflection of the vibrant academic culture and innovative spirit nurtured at Mount Zion College of Engineering and Technology.

The collective efforts of our students and faculty in curating this magazine highlight their passion for knowledge, research, and community involvement. Each page showcases the milestones achieved, the ideas explored, and the enthusiasm to make a difference in the ever-evolving field of Electronics and Communication Engineering

I extend my heartfelt appreciation to the ECE team for their dedication and hard work in bringing this newsletter to life. May this endeavor continue to inspire and serve as a platform for innovation and excellence.

**PROF. VIVIAN RACHEL JAYSON,
ACADEMIC CO-ORDINATOR,
MZCET**

MESSAGE FROM THE PRINCIPAL



It gives me immense pleasure to convey my thoughts through this newsletter, a testament to the dedication and dynamism of the ECE department. This publication reflects the spirit of innovation, academic excellence, and teamwork that we deeply value.

The accomplishments highlighted in these pages speak volumes about the hard work and creativity of our students and faculty. It is heartening to see their commitment to addressing contemporary challenges and contributing to the advancement of technology and society.

I commend the entire ECE team for their effort in producing this wonderful newsletter. May it continue to serve as a source of inspiration and a platform for showcasing the talents and achievements of the department.

DR. P. BALAMURUGAN
PRINCIPAL, MZCET

MESSAGE FROM DEAN/ ICT



It is an honor to share my thoughts through this newsletter, which highlights the exceptional dedication and accomplishments of the ECE department. This publication reflects the innovative mindset, teamwork, and pursuit of excellence that are integral to our academic environment.

The projects, research activities, and academic progress featured in this edition are truly inspiring. These efforts not only enhance learning but also encourage a culture of creativity and forward-thinking.

I extend my heartfelt congratulations to the students and faculty of the ECE department for their outstanding efforts in bringing this newsletter to fruition. I wish you continued success in all your future endeavors.

**DR. S. ROBINSON, DEAN/ICT
MZCET**

MESSAGE FROM HEAD OF THE DEPARTMENT



It gives me great pleasure to address you through this edition of the ECE department newsletter. This publication is a reflection of the dedication, innovation, and academic excellence consistently demonstrated by our students and faculty.

The initiatives and achievements showcased in this newsletter highlight the department's commitment to advancing knowledge, fostering creativity, and addressing real-world challenges. Such efforts not only enhance our academic culture but also inspire others to strive for greater accomplishments.

I extend my sincere appreciation to the ECE team for their hard work and dedication in producing this exceptional publication. May this newsletter continue to serve as a platform to celebrate and inspire success in all future endeavors.

DR. V. KAVITHA
HOD/ECE, MZCET

DETAILS OF EVENTS ORGANISED (IV/CONFERENCE/WORKSHOP/ SEMINAR/SYMPOSIUM/OTHER EVENTS)

S. No	Date of the Event	Name of the Event	Name of Internal Coordinator	Name & Detail of the Resource Person
1	11.12.2023 to 13.12.2023	2nd IEEE International Conference on Automation, Computing and Renewable Systems	Dr. V. Kavitha, AP/ECE, Mrs. A. Taksala Devapriya, AP/ECE, Mount Zion College and Technology, Pudukkottai	Dr. SadiqBatcha Abdul Rahim, Professor, Faculty of Engineering & Built Environment and Information Technology, MASHA University, Malaysia
2	08.11.2023	One Day Workshop on “Recent Advancement in Optical Communication”	Dr. V. Kavitha, AP/ECE	One Day Workshop on “Recent Advancement in Optical Communication”
3	03.11.2023	One day seminar- Spacecraft Engineering and Its Application	Mr. R.Arun Kumar, AP/ECE	Dr. B.Karthikeyan, Project Director, HRSAT Constellation Project, ISRO, Bangalore
4	17.10.2023	Motivation Programme- I’m Great, I can, I will	Dr. V. Kavitha, AP/ECE	Dr.P.Mani, Assistant Professor, Anna University, Trichy

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(IV/CONFERENCE/WORKSHOP/ SEMINAR/SYMPOSIUM/OTHER
EVENTS)

S. No	Date of the Event	Name of the Event	Name of Internal Coordinator	Name & Detail of the Resource Person
5	30.06.2023	Engineer's Day Celebration	Dr. V. Kavitha, Assistant Professor, Mount Zion College of Engineering and Technology	--
6	08.11.2023	A National Level Technical Symposium “IMPETUS’2023”	Dr. V. Kavitha, AP/ECE	Dr. S.S. Karthikeyan, Associate Professor, Department of ECE, NIT- Tiruchirappalli
7	03.11.2023	One day workshop on “Design of Electronic Circuit and PCB using Proteus”	Mr. Arunkumar R, AP/ECE, and Mr. C. Palaniappan, AP/ECE, MZCET	--
8	16.06.2023	Webinar on “Recent Trends in Electrical Engineering”	Dr. V. Kavitha, AP/ECE	Dr.K.S.Yamuna, Assistant Professor, Faculty of Engineering, Sona College of Techology

DETAILS OF EVENTS ORGANISED
(IV/CONFERENCE/WORKSHOP/ SEMINAR/SYMPOSIUM/OTHER
EVENTS)

S. No	Date of the Event	Name of the Event	Name of Internal Coordinator	Name & Detail of the Resource Person
9	30.06.2023	One Day Workshop On “Experimental Physics”	Dr. N. Sarala, Assistant Professor/Physics and Dr. A. AmaliRoselin, Assistant Professor/Physics Mount Zion College of Engineering and Technology	--

DETAILS OF FACULTY PARTICIPATION

FACULTY DEVELOPMENT PROGRAMME		
Name of the Faculty	Duration	Name of the Course
Mrs. S. Ammu	21.06.2023 - 27.06.2023	Adapting English Language Teaching to the Fourth Industrial Revolution
	Jul- Oct 2023	Technical English for Engineers
	21.11.2023	Upskill from Cambridge
Mr. R. Arunkumar	03.07.2023 - 18.07.2023	Advanced Research Methodology
	24.07.2023 - 28.07.2023	Digital Agriculture - High Throughput Plant Phenotyping
	21.09.2023	Illuminating the Future: Biochip Design with Photonics Technology
	Jul – Oct 2023	Introduction To Industry 4.0 And Industrial Internet Of Things
Mrs. B. Gowsalya	05.06.2023 - 09.06.2023	Modern Teaching Tools
	05.11.2023	Psychological Well Being for Teachers - MZCET
Dr. V. Kavitha	26.06.2023	Design and Analysis of Microwave Antennas using HFSS
	05.11.2023	Psychological Well Being for Teachers - MZCET

DETAILS OF FACULTY PARTICIPATION

FACULTY DEVELOPMENT PROGRAMME		
Name of the Faculty	Duration	Name of the Course
Mr. C. Palaniappan	03.07.2023 - 18.08.2023	Advanced Research Methodology
	26.07.2023	Multidisciplinary Research and Practice
	24.08.2023 to 14.09.2023	Short-Term Course 1 - "Ignite & Innovate: Equipping Staff with Skills for Educational Excellence" - MZCET
	Jul- Oct 2023	Analog Communication, Fiber Optic Communication Technology
	05.11.2023	Psychological Well Being for Teachers - MZCET
Mr. M. Palaniappan	05.06.2023- 09.06.2023	Modern Teaching Tools
	03.07.2023 - 18.07.2023	Advanced Research Methodology
	26.07.2023	Multi Disciplinary Research and Practice World Record
	31.07.2023 - 04.08.2023	VLSI to system design :silicon to end approach
	06.09.2023	Financial Fraud Investigation
	26.10.2023	IP Awareness Training Programme
	29.10.2023	Image Processing Onramp

DETAILS OF FACULTY PARTICIPATION

FACULTY DEVELOPMENT PROGRAMME		
Name of the Faculty	Duration	Name of the Course
Mr. M. Palaniappan	Jul – Oct 2023	Simulation of communication system using matlab
	05.11.2023	Psychological Well Being for Teachers - MZCET
Dr. K. Pandiarajan	Jul – Oct 2023	FDP - Smart Grid: Basics To Advanced Technologies
	05.11.2023	Psychological Well Being for Teachers - MZCET
Ms. K. Rama Prabha	18.12.2023 - 22.12.2023	Hands on Sessions and Experts based on IoT Applications
	22.12.2023	Research Paper Writing
	05.11.2023	Psychological Well Being for Teachers - MZCET
Mrs. G. Senthamilselvi	Jul- Oct 2023	Nanobiophotonics: Touching Our Daily Life
	05.11.2023	Psychological Well Being for Teachers - MZCET
	22.12.2023	Research Paper Writing
	04.03.2023 - 08.03.2023	Future Challenges in 6G

DETAILS OF FACULTY PARTICIPATION

FACULTY DEVELOPMENT PROGRAMME		
Name of the Faculty	Duration	Name of the Course
Mrs. A. Taksala Devapriya	21.08.2023 to 25.08.2023	AI & Cloud : Workshop on responsive AI in the cloud: Leveraging Generative power in the cloud, Mount Zion College of Engineering and Technology
	21.08.2023 to 25.08.2023	Breaking Boundaries in Healthcare: Futuristic Antenna Design for Telemedicine and Biomedical Applications using Artificial Intelligence
	05.11.2023	Psychological Well Being for Teachers - MZCET
	08.11.2023 - 09.11.2023	IQAC And Its Role in Quantity Assurance in Higher Education
	12.12.2023 to 13.12.2023	Substrate Integrated Waveguide Cavity Backed Self Triplexing Antenna for C band Applications, IEEE Conference ICACRS 2023
	Jul to Sep 2023	Nanophotonics, Plasmonics, And Metamaterials.
	26.06.2023 to 01.07.2023	Design and Analysis of Microwave antennas using HFSS.

DETAILS OF FACULTY PARTICIPATION

NPTEL COURSE				
S. No	Name of the Faculty	Date	Name of the Course	Status/Result
1	Mr. R. Arunkumar	July - Oct 2023	Introduction To Industry 4.0 And Industrial Internet Of Things	Sucessfully Completed
			Introduction To Internet Of Things	Sucessfully Completed
2	Mrs. V. Bharathi	July - Oct 2023	Nanophotonics, Plasmonics, And Metamaterials	Sucessfully Completed
			Electromagnetic Theory	Sucessfully Completed
5	Mr. C. Palaniappan	July - Oct 2023	Analog Communication	Sucessfully Completed
6	Mr. M. Palaniappan	July - Oct 2023	Stimulation of Communication Systems using Matlab	Sucessfully Completed
6	Dr. K. Pandiarajan	July - Oct 2023	Smart Grid: Basics To Advanced Technologies	Sucessfully Completed
7	Mrs. Senthamilselvi	July - Oct 2023	Nanobiophotonics: Touching Our Daily Life	Sucessfully Completed
8	Mrs. A. Taksala Devapriya	July - Oct 2023	Nanophotonics, Plasmonics, And Metamaterials	Sucessfully Completed

**DETAILS OF STUDENT PARTICIPATION
(INTERNSHIP/ CONFERENCE/WORKSHOP/
SEMINAR/SYMPOSIUM/OTHER EVENTS)**

Sl. No.	Date	Event	Name of the Student	Name of the Organization
1	30.06.2023	Hack Fest 2023	Vijayan S	Bangalore Institute of Technology, Bengaluru
2	30.06.2023	Hack Fest 2023	Vikram R	Bangalore Institute of Technology, Bengaluru
3	26.08.2023	MSME IDEA Hackathon 3.0 (Women) - Electricity generation using Footprint	Jumana Hassin S	Sri Krishna College of Technology, Coimbatore
4	26.08.2023		Reena Vigneswari S	Sri Krishna College of Technology, Coimbatore.
5	25.09.2023	Speech Competition	Kalki PL	Shanmuganthan Engineering College, Pudukkottai
6	22.09.2023	Paper Presentation	Guhan Raj R	Chettinad College of engineering and Technology, Karur

IEEE ICACRS 2023



IEEE ICACRS 2023 HIGHLIGHTS

The 2nd IEEE International Conference on Automation, Computing and Renewable Systems was held from 11.12.2023 to 13.12.2023, organized by Dr. V. Kavitha, AP/ECE, and Mrs. A. Taksala Devapriya, AP/ECE, Mount Zion College of Engineering and Technology, Pudukkottai. The event featured distinguished expertise, including Dr. SadiqBatcha Abdul Rahim, Professor, Faculty of Engineering & Built Environment and Information Technology, MASHA University, Malaysia, contributing valuable insights to the conference's academic and technical deliberations.

A ONE-DAY EXPERT WORKSHOP EXPLORED CUTTING-EDGE PROGRESS IN OPTICAL COMMUNICATION



WORKSHOP HIGHLIGHTS

The 2nd IEEE International Conference on Automation, Computing and Renewable Systems was held from 11.12.2023 to 13.12.2023, organized by Dr. V. Kavitha, AP/ECE, and Mrs. A. Taksala Devapriya, AP/ECE, Mount Zion College of Engineering and Technology, Pudukkottai. The event featured distinguished expertise, including Dr. SadiqBatcha Abdul Rahim, Professor, Faculty of Engineering & Built Environment and Information Technology, MASHA University, Malaysia, contributing valuable insights to the conference's academic and technical deliberations.

ECE PHOTO GALLERY



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ECE PHOTO GALLERY



FINAL YEAR TOPPERS



RUBINI M
GPA - 9.63



DHARNI S
GPA - 9.25



KHAUSHALYA M
GPA - 9.25



PRIYADHARSHINI K
GPA - 9.25



VIDHYA V
GPA - 9.25



ASHTA LAKSHMI M
GPA - 9.06



DHANASEKARAN B
GPA - 9.06



FAHMITHA BANU A
GPA - 9.06



KEERTHANA R
GPA - 9.06



MOHAMED IBRAHIM B
GPA - 9.06



RAMESH R
GPA - 9.06



RANJANI P
GPA - 9.06



SNEHA V
GPA - 9.06

Heartiest Congratulations to Our Final Year Toppers!

Your hard work and dedication have truly paid off.

THIRD YEAR TOPPERS



JUMANA HASSIN S
GPA - 9.00



SELVAMEENAL R
GPA - 9.00



IFNA
GPA - 9.00



ABDUL BASITH A
GPA - 8.62



EBI SARAN
GPA - 8.43



LAVEENA VARSHINI S
GPA - 8.43

Heartiest Congratulations to Our Third Year Toppers!

Your hard work and consistency shine through!

SECOND YEAR TOPPERS



SILAMBARASAN P

GPA - 8.18



ARUL MICHELLE S

GPA - 8.12



MOHAMMED ARSHATH A

GPA - 8.06

Heartiest Congratulations to Our First Year Toppers!

Your dedication and strong beginning set the tone for a bright future!

FIRST YEAR TOPPERS



SATHIYA PRIYA L
GPA - 8.65



NIKITHA A
GPA - 8.54



PRASANTH M
GPA - 8.27

Warm Congratulations to the Second Year Academic Performers
Your commitment has set a strong foundation for the years ahead.

DEPARTMENT FACULTY

S. No	Name	Designation
1	Dr. S.Robinson	Professor, Dean/ ICT
2	Dr. V.Kavitha	Associate Professor, HOD/ ECE
3	Dr. K.Pandiarajan	Professor
4	Dr. M..Dhamodaran	Professor
5	Mrs.A TaksalaDevaPriya	Assistant Professor
6	Mrs. G.Senthamilselvi	Assistant Professor
7	Mr.C. Palaniappan	Assistant Professor
8	Mr. R.Arunkumar	Assistant Professor
9	Mrs. V.Bharathi	Assistant Professor
10	Ms.K. Rama Prabha	Assistant Professor
11	Mrs. K.Latha	Assistant Professor
12	Ms .M.Karthiha	Assistant Professor
13	Mr. S.Ganesan	Assistant Professor
14	Mrs. B. Gowsalya	Assistant Professor
15	Mrs. S. Ammu	Assistant Professor

THE EDITORIAL TEAM



CHIEF EDITOR

Dr. V. Kavitha, Assistant Professor,
HOD/ ECE



EDITOR

Mr. R. Arunkumar
Assistant Professor/ ECE

THE EDITORIAL TEAM



S. Vijayan
Final Year ECE



S. Jumana Hassin
Final Year ECE



A. Ragul Prasanth
Third Year ECE

EMPOWERING CAREERS,
SHAPING FUTURES
MOUNT ZION
LEADS THE WAY!

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